

STAFFORDSHIRE COUNTY COUNCIL.

Annual Report

OF THE

MEDICAL OFFICER of HEALTH

W. D. CARRUTHERS, M.B., D.P.H.

For the Year 1927.

STAFFORD:
Printed by W. H. SMITH & SON, The Greengate Press
1928.

INDEX

	Page	Pag	ge
Area and Population	. 7	Liehfield (Rural)—	26
Audley—		Sewage disposal at Alrewas 2 Water Supply of Armitage	26
Sewerage and Sewage Dispo a Water Supply in			17
Bacteriological Laboratory—		Maternal Mortality 5	59
Bacteriological examinations		Maternity and Child Welfare 45-6	3
	1-43	Mayfield (Rural)—	
Venereal Diseases 4	3—45	Water Supply of Calton 1	17
Biddulph—	01	Measles 3	37
Rivers Pollution in Water Supply in	. 21	Midwives and Maternity Homes	
Bilston—		Act 57—5	59
Sewage Disposal Works	. 25	Midwives, Provision and Inspec-	
Water Supply in	. 14	tion of 45—5 Recovery of fees for medical	51
Births in urban and rura		attendance	52
districts	. 9	Subsidies !	
Brownhills—	1.0	Post-Certificate Training	5 2
- · ·	14		
Cannock (Urban)— Water Supply in	14	,	30
Cannock (Rural)—		8	35
	. 16	Milk, Special Designations	33
	24	Newcastle Borough—	00
Cheadle (Rural)—	1.0		22
Water Supplies in Sewage disposal at Cheddleto		Oldbury (Worcs.)— Sewage Disposal Works 2	25
Coseley—	0.5	Ophthalmia Neonatorum	64
Sewerage of		Puerperal Fever and Puerperal	
Deaths in urban and rura districts 1	013	Pyrexia Regulations	61
Diarrhœa and Enteritis	38	Quarry Bank— Rivers Pollution in	07
Diphtheria	36		27 14
Encephalitis lethargica	37	Rivers Pollution 19—	
Enteric Fever	36		20
Food—		Analyses of River Trent and tributaries	20
Inspection and Supervision of	of 0—35		20
Gnosall (Rural)—	0-30	Rugeley— Water Supply in	15
	16	1 1 V	
Health Visiting Scheme 5	3-58	Scarlet Fever	36
Housing	28	Sedgley—	07
Infantile Mortality	58	Sewerage in 25—	41
Infectious Diseases—Prevalence		Seisdon— Sewage disposal in	26
of and Control over 3	5—38	Water Supply Codsall Wood	17
Influenza	38	Sewerage and Sewage disposal 19—	
Leek (Urban)—	01		
Pollution of River Churnet	21	Small-pox	35

INDEX-continued.

Page
Showing work of health visitors during 1927 75
Tamworth Borough— Water Supply in 15
Tamworth (Rural)— Water Supply in 18
Tamworth (Urban and Rural)—
Sewage Disposal Works 26 Tettenhall (Urban)—
Water Supply in 15
Tipton (Urban)— Pollution of Brook Courses 23
Tuberculosis 39
Tutbury (Rural)— Water Supply of Hanbury 18
Upper Stour Valley Main Sewage Board—New Sewage disposal scheme 28
Uttoxeter (Urban)— Pollution from Trade Wastes, &c. 23
Water Supply in 15
Uttoxeter (Rural)— Water Supplies of Rocester, Abbotts Bromley, &c 18
Venereal Diseases, treatment of 43—45
Examinations of Pathological Specimens 43
Staffordshire cases treated in 1927 44
Vital Statistics (extracts) 7
Water Supplies 13—18
Wednesbury Borough— Water Supply in 16
Wednesfield— Sewage disposal in 25
West Bromwich County Borough Sewage Disposal Works 26
Whooping Cough 37
Willenhall (Urban District)— Water Supply in 16
Wolstanton— Sewage disposal in 22
Wolverhampton County Borough— Sewage Disposal Works 23

Digitized by the Internet Archive in 2018 with funding from Wellcome Library

Annual Report of the Medical Officer of Health.

PRELIMINARY NOTE.

The Annual Report for 1927 only deals with the year under review and is, therefore, much smaller than the Survey Report. The vital statistics continue to be favourable and are slightly lower than those for England and Wales as a whole, except the infant mortality rate which is a little higher, this being chiefly due to a severe outbreak of whooping cough in one section of the County. In 1927 a few cases of smallpox occurred, but the disease was soon got under control and did not spread. The other notifiable diseases were about normal, but on the other hand whooping cough and measles were severe in certain thickly-populated areas.

During the year, owing to the extension of Wolver-hampton, the Administrative County became less by 3,580 acres and lost a population of 18,974.

In the appropriate section of the Report details are given of the activities of Local Authorities with regard to their water supplies and the prevention of pollution of water courses in their districts. Whilst much has been accomplished, it is unfortunately true to say that there is still great pollution of the streams, particularly in the industrial areas; this matter is now engaging the close attention of those concerned, so that we may hope for a considerable improvement in the course of a few years.

In the rest of the Report attention is invited to the account of the work undertaken with regard to safeguarding the milk supply of the area; to the work of the County Laboratory and the large section of the Report devoted to maternity and child welfare.



STAFFORDSHIRE COUNTY COUNCIL.

Annual Report of the Medical Officer of Health.

Summary of Statistics,

1.—GENERAL STATISTICS.

Area of Administrat	tive County	• • •	(acres)	693,977
Population (for Dea		• • •	(1927)	
Population (for Birtl		• • •	(1927)	
Assessable Value at			£3	3,229,8 5 6
Sum represented by	a penny rate	e	£13,43	57 14 8
2.—EXTRACTS F	ROM VITAI	STAT	ISTICS (OF THE
	YEAR	•		
	Total. M.	F.		

Births (Legitimate) (Illegitimate)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Birth-rate 19.3							
Deaths	8,510 4,458 4,082	Death-rate 11.9							
Number of women dying of, childbirth	; in, or in consequence	From sepsis 25 From other causes 27							
Deaths of infants under one year of age per 1,000 births:— Legitimate, 79; Illegitimate, 104; Total, 80.									
Deaths from Measles (a. Whooping	l ages)	$. \dots \dots$							

Deaths	from	Measles (all ages)		 	 57
,,	,,	Whooping Cough (all ages)		 	 168
,,	21	Diarrhœa (under two years of age)	• • •	 	 90

AREA AND POPULATION.

I have this year to record an alteration both in the area and population of the Administrative County. By the extension of the County Borough of Wolverhampton, which took effect on April 1st, 1927, the area of the County has been reduced by 3,580 acres, and by an estimated population of 18,974.

The following are the details of the aggregate figures:—

	Area in Acres.		Estimated opulation.
Heath Town U.D	885	• • •	13,082
Cannock R.D. (Part) Bushbury	1,635	•••	3,071
Seisdon R.D. (Part) Upper Penn (Part) Wrottesley (Part).	509 551	• • •	2,650 171

The Borough of Newcastle-under-Lyme was extended on October 1st, 1927, by the inclusion of parts of the parishes of Keele and Clayton from the Newcastle Rural District. This alteration does not, of course, affect the area of the Administrative County. The details are as follows:—

	Ar	ea in	Esi	timated
	Acc	res.	Pop	bulation.
Newcastle R.D. (Pa	art)			
Tracta (Dont)		251	• • •	15
Clayton (Part) .	• •	599	• • •	56

The populations of the various districts used in calculating the birth and death-rates have again been supplied by the Registrar-General, those of the various districts affected by the Wolverhampton and Newcastle Extension Orders as shown in the general mortality tables at the end of the Report being adjusted for calculation of birth and death-rates. The births and deaths are inclusive of those registered before the transfers took place.

With the exception of one district, namely, Lichfield Rural, a single population is shown, and this is applicable to both births and deaths.

The "Standardising Factor," which is supplied by the Registrar-General for correcting the death-rates, has been used in districts with a population of over 10,000. The rates produced by this method are strictly comparable, the factor being based on the age and sex of the population as indicated at the last Census.

The estimates of population as at 30th June, 1927, which are now provided, have been based on the adjusted 1921 figures, after allowance for the varying rates of natural

increase as evidenced by the births and deaths in each area and of migration as indicated from other sources of information, such as the changes in the numbers on the Parliamentary Register and the migration returns obtained by the Board of Trade.

In the following table, the census population of the Administrative County for 1921, and the estimated population to the middle of 1927, are set forth:—

	Census, 1921	Estimated Population as at middle of 1927.
Urban	492,333	500,720
Rural	218,532	* 210,580
Total	† 710,865	711,300

^{*} The estimated population for the birth-rate in the rural districts is 212,180.

BIRTHS.

The births registered in the Administrative County numbered 13,856, compared with 14,535 the previous year, the number in the urban districts being 10,027, and in the rural districts 3,829, compared with 10,481 and 4,054 respectively.

In comparing the figures for 1927 with those of previous years, however, it should be borne in mind that the estimated population of the Administrative County is 11,590 less than it was for last year.

The mean birth-rates in the whole Administrative County and in the urban and rural districts respectively for seven quinquennial periods and for the past four years are shown in

[†] The Census population of the Administrative County as now constituted is less than this figure by about 46,000, owing to the absorption of certain districts in the extended County Borough of Stoke-on-Trent referred to in my Annual Report for 1922, and the extension of Wolverhampton County Borough.

the following table, in which corresponding rates in England and Wales are included:—

			BIRTH-RATE PER 1,000 OF POPULATION.										
	DISTRICTS.	1889-	1894-	1899-	1904-		1914-		1924.	1925.	1926	1927	
Staffordshire	Combined Urban and Rural	33.6	33.2	32.5	30.3	27.8	24.0	24.1	21.6	21.0	19.9	19.3	
ford	Urban	35.5	34.7	33.6	31.5	29.2	25.0	25.0	22.0	21.7	20.4	19.9	
Staf	Rural	30.2	30.5	30.2	27.0	24.4	21.6	22.0	20.4	19.5	18.7	18.0	
Eng	gland and Wales	30.8	29.7	28.7	26.9	24.5	20.4	21.3	18.8	18.3	17.8	16.7	
Lar	ge Towns in England	31.5	30.7	29.7	27.8	25.2	*20.9	22.0	19.4	18.8	18.2	17.1	

^{* 4} years.

DEATHS.

The number of deaths in the Administrative County amounted to 8,540, the number in the urban districts being 6,076, and in the rural districts 2,464.

In the following table comparative rates for seven quinquennial periods and for the past four years are given, together with corresponding figures for the country as a whole, and for large and small towns throughout England:—

			DEATH-RATE PER 1,000 OF POPULATION.										
	DISTRICTS.	1889-	1894-	1899-	1904-	1909-	5 yrs. 1914- 1918.	1919-		1925.	1926.	1927	
Staffordshire	Combined Urban and Rural	18.1	16.9	16.1	14.6	14.1	15.0	12.3	11.4	12.0	10.9	11.9	
ford	Urban	18.9	17.5	16.6	15.1	14.7	15.5	12.6	11.5	12.3	10.9	12.0	
Staf	Rural	16.8	15.7	15.1	13.4	12.7	13.8	11.6	11.2	11.4	10.9	11.7	
Eng	gland and Wales	19.1	17.4	16.9	15.3	13.9	15.2	12.5	12.2	12.2	11.6	12.3	
Lar	rge Towns	21.0	19.0	18.2	15.8	14.3	15.5	12.6	12.3	12.2	11.6	12.2	
Sm	aller Towns	17.6	15.9	15.7	14.9	13.6	14.1	11.5	11.2	11.2	10.6	11.3	

Deaths.

The death-rate per 1,000 of the population for this year is 11.9, whilst that for the country as a whole is 12.3. On referring to the Table for previous years, it will be noted that except during the quinquennial period, 1909 to 1913, the death-rate in this County has been slightly lower than that for England and Wales during the last 38 years.

In the following Table I have shown the chief causes of death for the last five years, the number given for 1927 being approximately 72% of the total deaths:—

TABLE SHOWING CHIEF CAUSES OF DEATH.

			1923	1924	1925	1926	1927
*Zymotic Diseases		• • •	540	271	604	337	386
Influenza	• • •	• • •	166	427	325	185	532
Tuberculosis of Respira	tory	System	497	497	5 3 0	497	465
Tuberculosis, other form		•••	172	154	143	139	156
Cancer, Malignant Dise	ase	• • •	716	639	790	785	80 3
Cerebral Hæmorrhage	• • •		485	487	542	464	465
Heart Disease	• • •		900	9 68	1053	1054	1047
Arterio-sclerosis	• •	• • •	194	205	238	229	315
Bronchitis	. •		644	687	64 8	544	6 50
Pneumonia		• • •	706	788	809	66 0	865
Congenital Debility &c.	• • •	• • •	482	55 1	521	496	453

^{*} Enteric Fever, Measles, Small-pox, Scarlet Fever, Whooping Cough, Diphtheria and Diarrhœa.

The chief cause of death in 1927, as in the previous five years shown in the table, was heart disease. Pneumonia is the next important cause, and then follows cancer, diseases of the blood vessels, bronchitis and tuberculosis, in the order given. These annual returns naturally bring prominently forward the question of the prevention of disease. In a handbook of suggestions on health education, recently issued by the Board of Education, valuable hints are given to teachers as to how they should teach this subject, and when they are generally adopted hygiene should find its true place in the scheme of education, and such teaching learnt during school days will be bound to have an enormous effect for good in later life. In the handbook referred to great stress is laid upon the necessity of acquiring healthy habits of life in the earliest years. It may be objected that in this way only the younger generation are thought of; but, according to an old proverb, man is a

I 2 Deaths.

bundle of habits, and it has been said that men do more things through habit than through reason. In later years we are not so receptive of instruction with regard to personal health, and the ordinary man prefers to rely upon experience, often dearly bought. What, therefore, is the best way of obtaining the interest and co-operation of adults in the prevention of disease? No one wishes to be regarded as a valetudinarian and the average individual is frankly not interested in the subject unless seized by illness. It seems, therefore, that formal lectures on health propaganda are unlikely to give the results hoped for by enthusiasts on this subject, and individual instruction at the homes by Health Visitors is preferable. Health Visitors are itinerant teachers, and the importance of their work is now being slowly recognised by the public. Their training is long and arduous, and under recent regulations it has been made increasingly so, but in view of the importance of their work this is clearly desirable, and it is hoped that every effort will be made to induce highly-educated women to take up this work.

In addition to instruction in hygiene, I think there is much to be said for the scheme of periodical medical examination started by American Life Insurance Companies. From their point of view this was a business measure, but as its object is the prevention of the development of disease, it surely should be welcomed by all. I do not refer to acute disease, but more particularly to the many chronic diseases which have such an insidious onset that they become far advanced before medical assistance is sought. If generally adopted such a scheme would soon change the outlook of the average man towards disease and arouse his interest in its prevention. Few could anticipate, when the medical inspection of school children began 20 years ago, what an important factor this measure would become in laying down the foundation for sound health in the early years of life by finding out and treating incipient disease as well as that which actually existed. In the course of its development it was soon found how inadequate the then existing means of treatment were for many conditions commonly found, and there is little doubt that a similar experience would result from the periodical medical examination in later years. It would also greatly stimulate investigations into the beginnings of disease. The practice of medicine would have to adjust itself to this changed outlook, and as much prominence would then be given to the prevention as to the cure of disease. Naturally, such a change could only be made

gradually, but there is little doubt it will come about when it is sufficiently realised how much time and money is lost yearly from sickness that might have been prevented, to say nothing of the loss of life involved.

Water Supplies.

In the following paragraphs will be found an account of the work undertaken during the year by various Local Authorities to improve the water supply of their areas as shown in the Annual Reports of the Medical Officers of Health, together with comments made by the Medical Officers where improvements in the water supply are urgently needed.

AUDLEY U.D.—"A subsidiary tank of 100,000 gallons capacity, at Talke, was completed in March. The area concerned was thus provided with a continuous supply of water.

"In 1926 the water from a well near Butt Lane was found on analysis to be quite unfit for drinking purposes. Arrangements were put in hand for a supply from the main to be provided for the group of cottages concerned, but work had not been started by the end of 1927."

BIDDULPH U.D.—" After much deliberation the Council decided to sink for water in Spring Lane, Biddulph, with a view to the augmentation of the present supply.

- "It is confidently expected that during the year sufficient water will be obtained to ensure an adequate supply for all parts of the district.
- "No contamination of drinking water has come before my notice during the year."

BILSTON U.D.—" The outstanding feature of the year's work in relation to water supply was the completion of the extensions at the Bratch, providing modern oil engine plant in duplicate, housed in a new building, together with a duplicate pumping main, and an additional service reservoir doubling the storage capacity.

"The whole of these extensions have been completed at an estimated cost of £72,000 and were opened on 28th September, 1927, by Sir H. Kingsley Wood, M.P., Parliamentary Secretary of the Ministry of Health.

"The supply of water is abundant for all purposes, and the certificate of the County Analyst (Mr. W. T. Jones) proves the water to be pure and of excellent quality."

Brownhills U.D.—"Three samples of water were taken from wells during the year:—

- "(1) Draw well supplying five houses, Watling Street, Norton Canes. Result—Water unfit for drinking purposes; well closed and a new well sunk.
- "(2) Draw well supplying two houses, Watling Street, Norton Canes. Result—Water fair, but not above suspicion; well cleaned out, re-puddled and bricked, top of well raised above adjoining ground level.
- "(3) Draw well supplying Red Lion Farm and house adjoining at Little Norton, Norton Canes. Result—Water fit for drinking purposes."

CANNOCK U.D.—" The South Staffordshire Water Company have a reservoir in the district at an altitude of 777 feet. This did not prove high enough to maintain a good supply at Cannock Wood. For this and other reasons a new reservoir is to be provided.

"During the year taps were fixed over sinks in 23 houses where the supply had been from pillar taps or pumps in the yard."

Quarry Bank U.D.—"In connection with the Mears Coppice water supplies, the situation should be found to be considerably simplified by the fact that the tenants of most of the cottages have now purchased the properties from the ground landlord, and in any future action the Council will now be able to deal direct with the respective owners."

RUGELEY U.D.—"This is in the same condition as last year. A scheme for obtaining a more abundant supply is now under consideration, and I hope nothing will occur to prevent it materialising."

STAFFORD BOROUGH.—"The new reinforced concrete reservoir to contain one million gallons of water, which is being constructed on a site adjoining the existing reservoir is nearing completion, and it is anticipated that it will be brought into commission in May or June next.

"Six houses at Doxey were connected up to the town main during the year. This leaves seven still depending on well water."

STONE U.D.—"A pure and constant supply is obtained from the Council's Waterworks. During the year a second 6in. supply main has been laid from the reservoir via the Red Hill to the town and connected to the existing distribution mains at the opposite end of the town to the original main; this has given a much better pressure and has made the supply more secure in case of any accident to the original main."

TAMWORTH BOROUGH.—" Extensions of mains have been proceeding during the year to cope with the demands of the district where houses are likely to be built."

TETTENHALL U.D.—" The Wolverhampton Corporation Mains have been extended during the year as follows:—

- "Finchfield Hill, 126 yards, 3in. main.
- "Wrottesley Road, 27 yards, 3in. main.
- "Wood Road Housing Site, 413 yards, 3in. main.
- "Five houses previously dependent on well water have been provided with a piped supply."

UTTOXETER U.D.—"The town's water supply continues to be entirely satisfactory. Progress is being made in dispensing with outside taps and standposts, and separate connections are now being laid to serve each house. More water is now being used for trade purposes and a considerable number of additional baths have been installed, thus using more water."

Wednesbury Borough.—"The water supply is provided by the South Staffordshire Waterworks Company, Limited.

"The water is of good quality and the supply is constant.

"It was pointed out in last year's Report that the area of the Delves was badly supplied; since then a water main has been extended to that area."

WILLENHALL U.D.—"The water supply is obtained from the adjoining Borough of Wolverhampton. The character of the water was satisfactory on the whole, but complaints were received at various times with respect to the presence of foreign matter in the water. The matter was referred to the Water Engineer and the mains flushed at frequent intervals and samples of the water were submitted for analysis and found to be satisfactory."

CANNOCK R.D.—"In 1926 I reported on the water supply to houses in the Parish of Dunston, and during this year the Stafford Corporation extended their water mains, and the houses on the line of mains have been connected.

"I made a report on the water supply to nine cottages at Crateford, with a view to getting the water mains of the South Staffordshire Waterworks Company extended to supply them, but the cost was found to be prohibitive."

CHEADLE R.D.—"A supply of water for Hollington and Freehay has frequently been discussed, but so far the cost has been found to be prohibitive and no steps have yet been taken to improve matters in these places."

GNOSALL R.D.—" One further connection has been made to the Gnosall water mains during the past year, and the limit of supply for purely domestic purposes has now been reached. Gnosall Heath is somewhat inadequately supplied, and the same applies to the villages of Church Eaton, Woodseaves and parts of Norbury. In Church Eaton a satisfactory solution of the proposed supply has not yet been arrived at. In Norbury village a solution has for the time being been found which is adequate."

LICHFIELD R.D.

The Surveyor, in his report, writes:—

"Armitage.—A complete scheme for the supply of water to Armitage, Brereton and Longdon was submitted to the Council and approved, but was deferred at the Meeting on April 13th, 1928, when a resolution was required approving the final estimate for the scheme and to apply to the Ministry of Health for sanction to a loan. It was again considered at the Health Committee Meeting on April 27th, and postponed pending inquiries from the South Staffordshire Waterworks Company as to their terms for supplying Armitage, and also until after a joint meeting of the three Parish Councils had been held to consider the same. This matter therefore rests with the Health Committee and the Parish Councils.

"Slitting Mill.—The supply of water from the Rugeley U.D.C. trunk main has continued much better since the position of the stand pipes was altered.

"Brereton.—The temporary expedient of the Rugeley U.D.C. to improve the supply of water to the higher parts of Brereton has been partially successful, but there is no doubt a more copious supply is needed at Brereton. Attention has been given to the meters on private supplies and these have now all been put in order."

MAYFIELD R.D.—" The only available supply at Calton and the hilly parts of the district is stored rain water."

SEISDON R.D.—"At Codsall Wood eight samples of water from wells were analysed and found unsuitable for drinking purposes. Arrangements are in hand for extending the Wolverhampton Corporation's water mains to this district. Various properties have been connected to the existing mains throughout the district. Pattingham is still without a public water supply.

Stafford R.D.—"In consequence of my report on the unsatisfactory conditions of the water supply in the Parish of Colwich, in 1926, arrangements are proceeding with the Stafford Corporation for a supply of tap water from their reservoir at Milford. At the moment it appears that these arrangements may develop to maturity. This would be the most satisfactory solution of the difficulty, as the Stafford water is in every respect excellent in quality.

STONE R.D.

- "Eccleshall.—The inhabitants of this large village still have only a sewage-contaminated water supply.
 - "Acton.—The water supply is unsatisfactory."

Tamworth R.D.—"The additional consumption is to some extent responsible for the increasing low pressure in the high parts of the district, and, although a severe inconvenience has not been experienced during the past year owing to the summer season being rainy, arrangements will have to be made for future summer periods."

TUTBURY R.D.—" The water supply is for the most part satisfactory throughout the district, though not good in parts of Hanbury in dry weather."

UTTOXETER R.D.

- "Rocester.—During the year the Ministry of Health approved of a scheme for supplying the village of Rocester with water from the Urban District Council's supply. The new mains have been laid and the whole of the work has been completed at a cost of approximately £1,800.
- "The water is purchased in bulk from the Uttoxeter Urban District Council and the supply is limited to 25,000 gallons per day. The supply is constant and should prove of immense benefit to the inhabitants."
- Other Parishes.—"There are also small public water supply schemes at Abbots Bromley and at Withington, in the Leigh Parish.
- "There appears to be no serious scarcity of water in any of the Parishes within the District."

Rivers Pollution Prevention.

A Hydrographical Survey of the River Trent was instituted by the Standing Committee on Rivers' Pollution of the Ministry of Agriculture and Fisheries in 1923, and has been continued yearly since that date.

accompanying Table the percentage oxygen saturation in the streams at certain fixed points is shown. The extent of the pollution can be judged when it is remembered that a percentage saturation of oxygen below 65 means that the stream is too polluted to support fish life. On reference to the Table it will be noticed that the heavy pollution of the streams that is now taking place in the industrial areas is observed for a considerable distance down stream. Unfortunately, as the streams in the industrial areas are so small, the degree of purification of effluents before discharge into them has to be much greater than if they found their way into a large river and, consequently, the expense is correspondingly greater. In last year's Report a summary of the work undertaken by the various Sanitary Authorities during the year was given, and this year similar details are included in the succeeding paragraphs.

RIVER TRENT.

		I	PERCE	NTAG	E OF	Oxy	YGEN	SATI	JRATI	ON.	
Location.	1923.		192	24.		19:	25.	1926		18	27
	July.	May.	June.	July.	Sept.	July.	Sept.	July.	Sept	July.	Sept.
River Trent at Strong- ford Bridge	38	28	33	29	47	25	35	41	45	53.5	40.5
River Trent at Darlaston above Stone	48	52	50	29	49	29	30	21	29	41	34.5
River Trent at Aston, below Stone	31	47	50	34	43	37	30	24	29	44.5	43
River Trent at Great Haywood Mill, before receiving River Sow	43	52	42	37	47	38	12	21	40	33.5	50
River Trent at Great Haywood Mill, below Weir	• • •	65	57	60	61	48	33	40	43	48	60
River Sow at G.N. Railway Bridge	44	80	73	58	71	66	71	40	57	52	68.5
River Sow at Brick Bridge	63	107	93	59	73	102	89	33	75	33	67.5
River Penk at Radford.	49	78	65	60	66	115	86	56	82	26.5	34.5
River Sow at St. Thomas'	44	88	74	53	69	69	56	22	6 5	40	52.5
River Trent at Weet- man's Bridge, near Little Haywood	49	68	53	43	50	38	44	27	34	27.5	51
River Trent at High Bridge below Rugeley Sewage Works	64	74	69	61	5 2	53	46	31	48	35.5	51
River Trent at Alrewas, above confluence with River Tame	60	89	71	81	85	99	81	70	76	62	78.5
River Tame at Perry Bar, before entering Birmingham	28	44	48	32	37	13	11	21	39	37	31.5
River Tame at Alrewas, above confluence with River Trent	50	64	70	60	45	44	46	37	46	45	53
River Trent at Alrewas, below junction with River Tame	•••	65	72	74	56	42	39	45	53	56.5	67
River Trent, North Boundary of Burton- on-Trent	58	70	67	73	65	77	57	54	62	46.5	71.5
River Dove above confluence with River Trent	69	106	99	103	84	100	103	83	100	87.5	88.5
River Trent below confluence with River Dove	•••	93	74	82	77	82	72	58	63	62	78.5

RIVER MERSEY WATERSHED.

AUDLEY U.D.—The question of sewerage and sewage disposal for Audley has been the subject of communications between the Public Health Committee and the Local Authority for a considerable period.

A scheme has been prepared; but from inquiries made it appeared that there was considerable unemployment in the district, and that in consequence the district was not financially in a position to proceed with the scheme, so the matter has been deferred for the present.

BIDDULPH U.D.—Pollution of the Biddulph Brook occurs from the sewage of some cottages near the forge on the Congleton Road, and the Local Authority have been asked to consider a scheme for dealing with this. A Committee has been appointed to visit and to report to the Council.

The Sanitary Inspector in his Annual Report states:—

"The main system is satisfactory. The time, however, has arrived when, owing to the Council having erected 186 houses under the Housing Acts, it will be found necessary to make provision for adequate treatment consequent upon this addition. Additional lengths of sewers have been laid during the year necessitated by houses and improvements to existing systems."

RIVER TRENT WATERSHED.

LEEK U.D.—The pollution of the River Churnet by sewage and trade waste has been under consideration by the District Council and the silk manufacturers. Samples have been taken, and further consideration is to be given to a report on the means of sewage disposal prepared by a firm engaged for the purpose of advising as to the best means to be adopted.

CHEADLE R.D.

Cheddleton.—New sewers have been laid and plans prepared for new Disposal Works here.

Wolstanton U.D.—The District Council have adopted a scheme for the treatment of the sewage of the population of the major portion of Wolstanton proper—Chesterton, Silverdale, Knutton and Cross Heath—on the biological principle, and a firm of engineers have this in hand. The new works will replace three, where the sewage is treated inadequately on land, and more or less serious pollution of the Lyme Brook will be abated.

On the application of the Council for a loan to carry out the work a public inquiry by one of the inspectors of the Ministry of Health was held. Subsequently the Ministry suggested that a Conference should be held between the Urban District Council, the Borough Council of Newcastle-under-Lyme and the City Council of Stoke-on-Trent with the object of investigating alternatives to the additional plant now proposed. Such a Conference was held under the chairmanship of an inspector of the Ministry, and at that Conference it was decided to take the opinion of an independent expert on the alternative suggested by the Ministry.

In the meantime pollution of the Lyme Brook is occurring

At the Basford Park Works new distributors have been provided for the filter beds.

NEWCASTLE M.B.—A firm of engineers has been instructed to furnish a report on the sewerage and sewage disposal of the district.

The same remarks apply to this district as in Wolstanton.

CITY OF STOKE-ON-TRENT.—The scheme for a new works, mentioned in my last Annual Report in substitution for the existing two, is in progress at Strongford. In the meantime pollution of the River Trent is occurring.

STAFFORD M.B.—Owing to the satisfactory results obtained by the activated sludge plant that deals with a portion of the sewage, the Council have decided to utilise this method of disposal for the remainder in place of the land treatment which for some time has yielded unsatisfactory results, and constructional work is in progress.

STONE R.D.

Oulton—During the year a small irrigation works was constructed to deal with the drainage from some 60 houses.

Tipton U.D.—The Surveyor, in an appendix of the Annual Report of the Medical Officer of Health, states:—

"All the brook courses within the district have been thoroughly cleansed and are now in a very satisfactory condition, with the exception of one. This latter is Addenbrook which passes from the County Borough of Dudley through Tipton, conveying the crude sewage from the Dudley Guest Hospital; mention was made of this in my last Annual Report, but no steps have been taken to remedy this. As the Hospital is very near to our boundary and in an undeveloped part of Dudley, no nuisance is caused to that Authority, but from our point of view it is a serious menace to public health, and some action should be taken to hasten the provision of some method of disposal by Dudley."

UTTOXETER U.D.—The Sanitary Inspector, in the Annual Report of the Medical Officer of Health, states:—

- "Rivers and Streams.—Considerable attention is still being paid to the conditions of the rivers and streams within the Urban Area, and one of the chief sources of pollution, namely, the trade waste from the Wilts. United Dairies is about to be treated on an entirely new Purification Plant which is now nearing completion.
- "A commencement has also been made with a scheme for dealing with the trade waste from Messrs. C. Bunting, Ltd., Brewery.
- "Drainage and Sewerage.—Careful inspection and tests are being made whenever an opportunity arises, and where any defective or improper connection has been found it has been remedied, necessitating in some cases a new connection to the soil sewer."

Wolverhampton County Borough.—A Ministry of Health Inquiry was held at Wolverhampton in April. This was to consider applications of the Corporation for the renewal of their certificate under the Wolverhampton Corporation Act, 1891, the certificate being to the effect that they were using the best or only practical means under the circumstances for rendering harmless the effluent from the sewage works and sewage lands flowing into the Pendeford Brook or its tributaries, which form the upper reaches of the River Penk. The application was opposed on behalf of the County Council and the Riparian owners, with the result that the certificate was granted for twelve months only, pending the extensions or remodelling of their works.

The construction of an activated sludge plant for a portion of the daily flow of sewage is completed, but owing to the increase in strength of the sewage the plant has been unable to deal with the volume it was expected it would treat satisfactorily. In the meantime serious pollution of the River Penk is taking place, and this has been the subject of communications between the Authorities and the Ministry of Health.

In his Annual Report for 1927, the Medical Officer of Health for Cannock Rural District states:—

- "The Sanitary Inspector has received numerous complaints during the year about the serious pollution of the River Penk, and he has from time to time reported on the matter to the Council, and also to the Medical Officer of Health of the Staffordshire County Council, who are the authority for rivers pollution.
- "The dairy farmers frequently complain that they are afraid to let their cattle drink from the stream, or that the cattle will not drink from the river at all.
- "As this river constitutes the main supply of drinking water for hundreds of milch cows in their district, it is of vital importance that it should be maintained in such a condition as to enable it to be safely used for ordinary farming purposes, and especially for the watering of cattle.
- "The pollution, which is mainly caused by the discharge into the river of sewage from the Wolverhampton Barnhurst Sewage Farm, is very bad, and has become much worse throughout the year.
- "This pollution is, in my opinion, the cause of the fish in the river dying off in large numbers, and this is viewed with alarm not only by the local inhabitants, but by fishermen generally, as the Penk is a well-known fishing river.
- "The whole matter is under review, and is receiving the serious consideration of the Staffordshire County Council, and of the Wolverhampton Corporation and others, and it is to be hoped that steps will soon be taken to discontinue this serious pollution of the river.

Drainage and Sewerage.

- "At Featherstone and Hilton, a scheme has been completed capable of dealing with the sewage from 400 houses. So far 282 premises have been connected up.
- "Penkridge.—The scheme for this village has been under consideration during the year, but owing to the low level of the surrounding land, it cannot be proceeded with until electricity for power purposes is brought to the village."

RIVER TAME.

OLDBURY U.D. (WORCESTERSHIRE).—Consideration is being given to the laying of a trunk sewer from Oldbury to connect to the Birmingham Tame and Rea Boards' Works for treatment. In the meantime gross pollution of the Tame is taking place, only about half the volume of sewage being treated, the remainder being discharged into the River Tame after preliminary tank treatment only.

Coseley U.D.—The sewering of the northern area is in progress.

Sedgley U.D.—Conversions and connections have been pushed on with and will shortly be completed.

BILSTON U.D.—The works here are to be extended to deal with the sewage from their own area and the northern section of Coseley.

Wednesfield U.D.—An engineer has been engaged to advise the Council on a scheme for the sewering of part of the area, and the treatment of the sewage by artificial filtration in substitution for inadequate land treatment.

West Bromwich Borough.—Consideration is being given to the laying of a trunk sewer to convey sewage for treatment to the works of the Birmingham, Tame and Rea Board. In the meantime serious pollution is occurring.

Tamworth U.D. & R.D.—The Joint Disposal Works has been the subject of communications between the Public Health Committee and the Tamworth Joint Sewage Disposal Committee, and, while certain work has been done, such work has been inadequate, with the result that unsatisfactory effluents have been discharged into a tributary of the River Tame.

In his Annual Report for 1927, the Medical Officer of Health states:—

- "There is a certain improvement in these important works, but a very great deal requires to be done to bring them to a state of efficiency.
- "Sewage disposal is essentially an engineering problem. I believe, therefore, that the best results will only be attained when this is recognised and our Surveyor given a free hand to take an active interest in the work."

LICHFIELD R.D.

Alrewas.—A scheme for the disposal of sewage at Alrewas has been laid before the Council, and is now only requiring the negotiations for the purchase of the necessary land, then it will be ready to despatch to the Ministry of Health with an application for sanction to a loan.

RIVER SEVERN WATERSHED.

SEISDON R.D.

Merry Hill.—The extension of the works here mentioned in my Annual Report last year, namely, the provision of two tanks, three filters, two humus tanks, are completed and are working satisfactorily.

Codsall.—The Council's engineers have nearly completed their plans for a general sewerage scheme for Codsall, and it is the Council's intention to proceed with the scheme as soon as possible.

Sedgley U.D.—The Medical Officer of Health, in his Annual Report for the year 1927, states:—

"The sewering of Lower Gornal, embracing about 12 miles of sewers, exclusive of sewers laid on the Lower Gornal Housing Estate, was completed in June, 1927. An additional sewer has been laid on the Upper Gornal Housing Estate to prevent flooding of several houses in Nethergate and Green Lane on the lower part of the estate. This has remedied the liability to flooding previously existing during heavy rain storms.

"The work of providing Sewage Disposal Works for Lower Gornal commenced in October, 1925, was completed in October, 1927.

"The works were immediately brought into operation by connecting the sewers from the Lower Gornal Housing Estate, containing 236 houses. The drainage from other houses in this area being added daily. The drainage system of the Workhouse and Poor Law Institution buildings, serving a population of about 650 persons, has also been connected with the public sewer. The works for this area are designed to serve a population of 11,000."

Quarry Bank U.D.—Direct pollution of the River Stour takes place in this district. A scheme has been prepared and considered by the District Council, who realise that the necessary work must be carried out, though at the present time they do not propose to carry out the scheme until the Upper Stour Valley Main Sewage Board's Scheme, described in the next section, is completed.

UPPER STOUR VALLEY MAIN SEWAGE BOARD.

Owing to sewers being overloaded in Worcestershire and Staffordshire, pollution occurs on the Board's system, the storm water overflow operating during dry weather.

A comprehensive scheme has been prepared by the Engineer of the Board to duplicate the system and provide works for the treatment of approximately 8,000,000 gallons dry weather flow. A Ministry of Health Inquiry has been held and, after some amendment, the Ministry approved of the scheme and sanctioned a loan of £54,000, and the carrying out of the scheme is making good progress.

Housing.

In the accompanying table, which has been prepared from information supplied by the District Medical Officers of Health, the extent to which the building of houses has taken place in each sanitary district will be found. Taking the County as a whole, 4,219 houses were built in 1927, of which 2,613 were erected by Local Authorities under assisted schemes. In the previous year 2,969 were built, of which 2,657 belong to Local Authorities. It is therefore evident that the chief feature disclosed by this table is the increase in the number of houses erected through agencies other than the Local Authorities, and at the same time it will be observed that the latter built practically the same number of houses as in the previous year. A satisfactory feature with regard to the increased number of houses erected in 1927 is that it is becoming much more possible for the necessary and extensive repairs to be undertaken in many existing houses, and for Local Authorities to consider the question of dealing with any unhealthy areas that may exist in their district.

STATEMENT showing the number of :—

- (1) Houses erected in Staffordshire during the year 1927, and
- (2) Houses in the course of erection at the end of 1927.

` .							
	By	Local					
		nority			Totals.		
		assisted	Othe	rwise.			
SANITARY	sche	emes.					
DISTRICT.				1			
		Houses		Houses		Houses	
	Houses	in the	Houses	in the	Houses	in the	
	erected	course of	erected	course of	erected	course of	
	during	erection	during	erection	during	erection	
	year	at end	year	at end	year	at end	
	1927.	of 1927.	1927.	of 1927.	1927.	ef 1927.	
<u></u>		01 20211		01 101			
URBAN.				'			
Amblecote	• • •		4		4		
Audley		• • •	14	• • •	14		
Biddulph	50		8		58		
Bilston	297		26	• • •	323		
Brierley Hill	96		$\overset{-\circ}{2}$		98		
Brownhills	$\frac{54}{54}$		$3\overline{4}$		88		
Cannock	86	• • •	$1\overline{22}$	•••	208	•••	
Coseley	128	•••	36	•••	$\frac{208}{164}$	• • •	
Darlaston	89	86	30	•••	119	86	
TZ: Janeton and		1	$\frac{30}{23}$	•••	$\frac{119}{23}$		
'r 1	4.0	* • •		•••		• • •	
T 1 1.01.11	40	• • •	47	•••	87	* * *	
	28	• • •	4	•••	32	•••	
Newcastle	102	•••	139	•••	241	• • •	
Quarry Bank	75	***	15	• • •	90	***	
Rowley Regis.	90	116	55	• • •	145	116	
Rugeley	$\frac{14}{2}$	•••	$\frac{29}{2}$	•••	43	•••	
Sedgley	22	•••	26		48	• • •	
Short Heath	•••	• • •	14	• • •	14	• • •	
Stafford	118	•••	40	• • •	158	•••	
Stone	56	• • •	4	• • •	60	•••	
Tamworth	40	• • •	5	8	45	8	
Tettenhall	82		•••		82		
Tipton	92	• • •	16		108	• • •	
Uttoxeter	• • •	• • •	17		17	• > 1	
Wednesbury	152		• • •		152		
Wednesfield	104		54		158		
Willenhall	184		11		195		
Wolstanton			102		102		
Total	1,999	202	877	8	2,876	210	
Drm							
RURAL a Blore Heath							
	156	•••	901	• • •	0 <i>ET</i>	•••	
bCannock	156	* * *	201	• • •	357	• • •	
Cheadle	• • •	•••	$\frac{54}{2}$	• • •	54	• • •	
Gnosall	105	• • •	3	•••	3	•••	
Kingswinford.	165	• • •	•••	•••	165	•••	
Leek	53	• • •	$\frac{15}{2}$	•••	68	•••	
Lichfield	• • •	•••	93	•••	93	• • •	
Mayfield	• • •	•••	1	•••	1		
Newcastle	•••	•••	11	•••	11	• • •	
Seisdon	58	•••	141	•••	199	٥ • •	
Shifnal	4	•••	$\frac{7}{2}$	• • •	11	• • •	
Stafford	•••	• • •	57	• • •	57	• • •	
Stone	18	•••	16	• • •	34	***	
Tamworth	30	• • •	• • •	• • •	30	*	
Tutbury	• • •	• • •	23	•••	23	• • •	
Uttoxeter	• • •	• • •	9	• • •	9		
Walsall	130	• • •	98	• • •	228	•••	
Matal	614		700		1 949		
Total	614	• • •	729	•••	1,343	• • •	
Combined							
Totals,	0 0 1 0	0.50				0.7.0	
Urban & Rural.	12,613	202	1,606	8	4,219	210	
-	. 7	7 7	. 7.	N	4 12 20	1 4	

a Report not received.

b Including those built in the Rural Area by neighbouring Local Authorities.

Inspection and Supervision of Food.

(a) Milk Supply.—During the year 1,073 samples of ordinary milk were chemically examined; 90 of these were not satisfactory. Prosecutions were instituted in 28 cases and were sustained. Five samples of skim milk were analysed and two were unsatisfactory, and in one instance prosecution took place and was sustained. One hundred and two samples of specially-designated milk were chemically analysed and seven samples of Grade "A" milk were found to be deficient in fat.

Fifty-eight representations under Section 4 of the Milk and Dairies (Consolidation Act, 1915, were made by Medical Officers of Health outside the County, and as a result of the veterinary inspections 53 animals were slaughtered under the Tuberculosis Order.

Thirty-two cases of tuberculous milk were found in samples taken during the year by the County Council's Inspectors, and the usual action under Section 4 of the Milk and Dairies Act, 1915, followed, 27 cows being slaughtered under the Tuberculosis Order, one died and seven were disposed of by owner for slaughter.

Five representations under Section 4 of the Milk and Dairies Act, 1915, were made to outside Authorities of milk sent in to the County for sale from which samples were taken by the County Council's Inspectors. All these cases were investigated by the Authorities concerned, in four instances with negative results.

In last year's Report it was stated that it had been decided at a Conference of Local Authorities that the County Council should arrange to take samples of milk systematically throughout the Administrative County, for bacteriological investigation especially, and the staff of Inspectors was increased with this object. The scheme was started on the 1st June, and since then quarterly reports have been made to the County Council, so that in the accompanying table the figures do not relate to the calendar year, but the period from the 1st June, 1927, to the 29th February, 1928.

ORDINARY MILK SAMPLES.
1st June, 1927, to 29th February, 1928.

SANITARY	No. of Samples	Result of E	т.в.	
AUTHORITY.	Submitted.	Clean.	Unsatisf'tory	Found
URBAN.		,		
Audley	23	21	2	2
Biddulph	16	14	2	
Bilston	$\overline{1}2$	8	$\begin{bmatrix} 2 \\ 2 \\ 4 \end{bmatrix}$	
Brierley Hill	-6	3	3 5	
Brownhills	20	15	5	1
Cannock	$\frac{-3}{43}$	$\tilde{24}$	19	$\bar{2}$
Coseley	9	8	i	$\frac{2}{1}$
Darlaston	7	$\ddot{2}$	1	
Kidsgrove	7	$\frac{2}{2}$	5	$\frac{1}{2}$
Leek	20	11	9	$\frac{\dots}{2}$
Lichfield	$\frac{20}{25}$	7	18	U
Quarry Bank	5	3	$\frac{13}{2}$	• • •
Rowley Regis	25	12	13	$\frac{\cdots}{4}$
T))	4 4	4	$\begin{bmatrix} 13 \\ 7 \end{bmatrix}$	±
	16	9	7	1
C 95 LD			30	
	40	$\frac{10}{9}$		4.
Stone	23	9	14	4
Tamworth	14	3 2 8	11	1
Tettenhall	6	2	4	•••
$egin{array}{cccccccccccccccccccccccccccccccccccc$	17	8	9	3
Uttoxeter	7	* * *	7	1
Wednesbury		11	13	3
Wednesfield		12	6	• • •
Willenhall		$\frac{3}{2}$	8	• • •
$Wolstanton \dots$	28	17	11	1
RURAL.				_
$\operatorname{Cannock} \ldots \ldots$		15	6	1
Cheadle	20	17	3	• • •
Gnosall		3	1	
Kingswinford	11	8	3	• • •
${ m Lee}ar{ m k}$	$\begin{array}{c} 22 \\ 23 \end{array}$	15	7	2 2 2 1
Lichfield	23	9	14	2
Stafford	35	13	22	2
Stone	16	8		1
Tamworth	8	4	4	
Tutbury	6	4.	2	$\overset{\cdots}{2}$
Uttoxeter	13	$1\overline{2}$	8 4 2 1	1
Walsall	1.0	$\frac{1}{5}$	5	1
THEOLOGICAL SAME SAME				
Totals	622	331	291	45

Arrangements have now been made for taking samples of all kinds of milk sold in the various parts of the Administrative County, and on reference to the table the numbers taken will be seen for each area. With regard to the ordinary milk supply, 622 samples were sent for bacteriological examination, and of these 331 were reported as clean, the remaining 291 not being of a reasonable standard of cleanliness. All samples were of fresh milk as sold to the customer, so that no unsatisfactory result can be ascribed merely to the age of the milk. They were obtained from 421 producers and include 45 who reside outside the Administrative County. The number of farms in which the milk was not sufficiently clean was 217, of which 27 were not in Staffordshire.

The figures quoted above relate to the nine months under review; but it is only fair to state that from the quarterly reports it can be shown that there has been a steady improvement in the cleanliness of the milk, and in the last quarter there were only 11 dirty samples in 97 which had been drawn from 83 Staffordshire producers. In the same period 21, of which six were dirty, came from producers outside the County. Such results are certainly encouraging and confirm the statement which is frequently made that there is no special difficulty in producing clean milk if sufficient attention is given to detail and to what was described by a speaker at the recent Dairy Congress as "dairy discipline."

This improvement in cleanliness shows that in this area active co-operation exists between the Public Health Authorities and the milk producers. In attaining this we have received much assistance from the local branch of the National Farmers' Union, who have been quick to realise that all concerned gain by the production of clean milk. On the other hand, the public do not as yet sufficiently recognise how greatly the health and nutrition of children long past the age of infancy benefit by drinking more milk, so it is hoped that the increased care and attention now given to the production of this valuable food will result in a much greater demand for it.

At the end of the year the Ministry of Health had issued one licence for "Certified" milk and three for Grade "A" (Tuberculin Tested) milk to producers in the County under the Milk (Special Designations) Order, 1923, and the County Council had issued 22 licences for Grade "A" milk. Samples of these designated milks have been taken at monthly intervals and submitted to bacteriological investigation to see if they satisfied the standard of cleanliness laid down in the Regulations. During the nine months, from the 1st June, 1927, to the 29th February, 1928, 168 samples were taken, of which 138 were satisfactory and 30 were not. Tubercle bacilli were found in two samples of milk.

At the beginning of the year only eight producers were licenced to sell Grade "A" milk as against 22 on December 31st. From the point of view of the public there is little doubt that this milk has advantages over the ordinary milk because it is sold in sealed containers under licence, and the standard of cleanliness that has to be maintained ensures its keeping qualities, which are twice as long as the average sample of milk sold under ordinary conditions. It is, therefore, gratifying to find that the market for this graded milk is increasing, as shown by the larger number of licences issued, and it is hoped that the day will not be long distant when the public will demand all milk to be of the standard of cleanliness of Grade "A" milk.

(b) The work under the Food and Drugs Act is summarised in the following Table, in which is shown the number of samples taken and any action necessary:

			e le	70		Prosecutions.	
		No. of Samples Submitted	No. Genuine	No. Adulterated	Cautions.	Instituted.	Convict'ns
Aerated Pastry Flour		1	ī	• • •			•••
Arrowroot	• • • • • • • • • • • • • • • • • • • •	3	3		• • •		
Barley	• • • • • • • • • • • • • • • • • • • •	1	1	•••			• • •
Bi-carbonate of Soda	• • • • • • • • • • • • • • • • • • • •	1	1	•••	• • •	• • •	• • •
Brawn Butter	• • • • • • • • • • • • • • • • • • • •	19	14	5	<i>•</i> 3	•••	• • •
O - 1	•••	93	$\begin{array}{c} 93 \\ 4 \end{array}$	•••	•••	•••	• • •
Candied Peel	• • • • • • • • • • • • • • • • • • • •	$\frac{4}{3}$	3	•••	•••		• • •
Chocolate		1	1	•••	•••	•••	•••
Cocoa	•••	5	$\frac{1}{5}$		• • • •	•••	
Coffee		9	9				•••
Cornflour		$\overline{2}$	2	• • •	• • •		
Crab (Dressed)		$\begin{array}{c} 2 \\ 2 \\ 5 \end{array}$	2	• • •	• • •		
Cream	• • • • • • • • • • • • • • • • • • • •		4.	$1 (\alpha)$	• • •	• • •	• • •
Currants	• • • • • • • • • • • • • • • • • • • •	3	3	• • •	• • •		
Custard Powder	• • • • • •	1	$\frac{1}{1}$	•••	• • •		• • •
Egg Substitute	• • • • • • •	1	1	•••	•••	• • •	•••
Figs Flour (Self Raising)	• • • • • •	$\frac{1}{21}$	$\frac{1}{21}$	• • •	•••	• . •	• • •
Groats	•••	$\begin{array}{c} 21 \\ 1 \end{array}$	$\begin{vmatrix} 21\\1 \end{vmatrix}$	•••	• • •	•••	• • •
Ground Ginger	• • • • • • • • • • • • • • • • • • • •	10	10	•••	•••	•••	• • •
Jam		3	3	•••	•••	•••	• • •
Lard	•••	57	57		• • •		• • •
Lime Juice		1	1		• • •		•••
Margarine	• • • • • • • • • • • • • • • • • • • •	3	3	• • •	• • •	1 (b)	1
Marmalade		1	1				• • •
Milk	•••	1,073	983	90 (c)	57	28	28
Milk (Skim)		5	3	$\frac{2}{2}$ (d)	•••_	1	1
Milk (Specially Design			95	7 (e)	7	• • •	• • •
Oatmeal Olive Oil	• • • • • • • • • • • • • • • • • • • •	$\frac{2}{3}$	$\frac{2}{3}$	•••	• • •	•••	•••
D Di	• • • • • • • • • • • • • • • • • • • •	1	1	•••	• • •	•••	• • •
Pepper	• • • • • •	0.77	$2\overline{7}$	•••	• • •	• • •	•••
Potted Meats		0	9				•••
Potted Pasties		11	11		• • •		
Raisins		0	3		• • •		
Rice		19	19		• • •		
Sausage	•••		21	3	3		
Semolina	•••		2	• • •	• • •		
Shredded Beef Suet	•••	_	1	•••	•••		
Shredded Whole Whe			1	•••	• • •	•••	• • •
Sponge Cake	• • • • • •		10	•••	•••	• • •	
Sponge Sandwich	• • • • • • •	-	5	• • • •	•••	•••	•••
Vinegar	•••	11	11	•••	•••	• • • •	•••
Totals	• • • • • • •	1,561	1,453	108	72	30	30

⁽a) Adulterated Sample—Purchase Unofficial. Subsequent Official Sample Genuine.

(b) Prosecution—Margarine Unlabelled.

⁽c) Five Samples taken from cows. The attention of the producer was called to this, the milk being of very low quality.
(d) Unofficial Sample—led to the Official Sample, followed by the

Prosecution.
(e) 7 "Grade A" deficient in fat.

The action taken under the Milk and Cream Regulations, 1912 and 1917, is shown in the following Table:—

1. MILK AND CREAM NOT SOLD AS PRESERVED CREAM.

	(a) Number of samples examined for the presence of a Preservative.	(b) Number in which Preservatives was reported to be present. and Percentage of Preservative found in each sample.
Milk Cream	1141 5	0

2. CREAM SOLD AS PRESERVED CREAM.

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct:—

(i.)	Correct statements m	nade	• • •	• • •	• • •	• • •	• • •	0
(ii.)	Statements incorrect	•••	• • •	• • •	• • •	•••	• • •	0
		Total	• • •	• • •	• • •	• • •	•••	0

(b) Determinations made of milk fat in cream sold as preserved cream.

(i.)	Above	35	per	cent.		• • •		• • •	• • •		• • •	0
(ii,)	Below	35	per	cent.	•••	• • •	• • •	• • •	• • •	• • •	• • •	0
Í												
					Tot	al		• • •	• • •	• • •		0

Prevention of, and Control over, Infectious Disease.

SMALLPOX.—In 1927 four cases of smallpox were notified, one in Bilston, two in Leek Urban Districts and one in Stone Rural District. One case proved fatal. The others were the mild type of disease which is characteristic of the majority of the cases that have occurred in other parts of the country recently. Owing to this mildness it is not easy to control, and so it is satisfactory to find that the active measures taken by the Medical Officers of Health in the districts named have been so effective in preventing an epidemic occurring.

SCARLET FEVER.—1,230 notifications, 862 being in urban districts and 368 in rural districts, were made to District Medical Officers of Health during the year. Six deaths took place in urban districts and nine in rural districts from scarlet fever. The death-rate was 0.01 in urban and 0.04 in rural districts. The disease was not especially marked in any part of the County, but cases occurred in every area except two small parishes, the greatest numbers being in Leek and Rowley Regis Urban Districts and in Cannock Rural District. The disease was of the usual mild type now common and, as has been mentioned, the death-rate was low.

DIPHTHERIA.—During the year 719 cases were notified, 494 in urban districts and 225 in rural districts. There were 38 deaths in urban and 14 in rural districts, giving a death-rate of 0.07 and 0.06 respectively. On reference to the Tables at the end of the Report the numbers and deathrates for each sanitary district will be found. It will be seen that the disease was most prevalent in the following areas:— Biddulph, Brierley Hill, Kidsgrove, Leek, Rowley Regis and Tipton Urban Districts, and Cannock and Kingswinford Rural Districts. Although compared with last year there have been fewer cases and a smaller number of deaths, this disease remains one of the most serious in childhood. It is one in which hospital treatment is especially desirable, chiefly because of the danger of complications and the necessity for prolonged convalescent treatment. Unfortunately, owing to lack of isolation hospital accommodation in so many areas in the County, this is not always available; but, as the matter is now under consideration by the County Council and the districts concerned, it is hoped that before long suitable provision will be made. In the control of this disease the bacteriological examination of swabs from the throat and nose played an important part, and it is, therefore, satisfactory to find that medical practitioners in the County and the school medical staff made full use of the facilities provided at the County Laboratory for this work and during the year 7,206 swabs were sent for examination.

ENTERIC FEVER.—Ten notifications of typhoid fever from urban and ten from rural districts were made to the District Medical Officers of Health during the year. There were two deaths in urban districts and one in a rural district. On reference to the Table at the end of the Report it will be seen that there was no epidemic of this disease, but isolated cases occurred in several sanitary areas.

ENCEPHALITIS LETHARGICA.—26 cases were notified, 15 in urban and 11 in rural districts, and 17 deaths occurred in urban and five in rural districts. Cases occurred in 16 sanitary districts. Fortunately these showed no tendency to spread in epidemic form, but, as in previous years were severe in type, most of the cases ending fatally. The districts where cases occurred will be found in the Table at the end of the Report.

With reference to the non-notifiable infectious diseases, the deaths from measles, whooping cough, diarrhœa and enteritis are as follows:—

MEASLES.—There were 51 deaths in urban districts with a death-rate of 0.10 and six deaths in rural districts with a death-rate of 0.03. Compared with last year there were twice as many deaths in urban districts, but fewer in rural districts. As this disease is not notifiable, we have no information of the number of cases. The death-rate was highest in Cannock and Tipton Urban Districts. This disease is difficult to control because it is highly infectious some days before the characteristic rash appears. Experience seems to indicate that it breaks out in epidemic form in any centre of population about every third year. It is a serious disease in childhood chiefly because of the lung complications that so readily occur and from which most of the fatal cases arise.

Whooping Cough.—In 1927 there were 121 deaths in urban districts with a death-rate of 0.24 and 47 deaths in rural districts with a death-rate of 0.22. This disease has been much more severe this year and the number of deaths has been double that of 1926. It broke out in epidemic form in the urban districts of Bilston, Tipton and Willenhall, and in the latter district there were 30 deaths; 12 also occurred in Cannock Rural District and 15 in Walsall Rural District. It will be seen on reference to the Tables at the end of the Report that the northern, central and extreme southern parts of the County were comparatively free from the disease. Its importance lies in the fact that it chiefly attacks very young children and is particularly fatal from lung complications.

Diarrhea and Enterits.—There were 76 deaths in urban districts with a death-rate of 7.6 per 1,000 births and 14 deaths in rural districts with a death-rate of 3.6 in children under two years of age. The districts having the highest death-rates were Kidsgrove which was 25.4, and Tamworth 24.1 per 1,000 births. On the other hand, in 11 urban and nine rural districts there were no deaths from this disease which, fortunately, owing to the improvement of sanitary conditions, is now not such an important cause of death in young children as was the case a generation ago.

INFLUENZA.—There were 378 deaths in urban districts and 154 in rural districts. On reference to the Tables at the end of the Report it will be seen that the disease was wide-spread throughout the County and deaths occurred in all areas except Uttoxeter Urban District. The highest numbers were in Rowley Regis and Wednesbury, where there were 52 and 44 respectively.

The numbers of Cases of Notifiable Infectious Diseases, with the deaths, in the Administrative County during 1927 are as follows:—

Diseases.				Notific	ations.	Dea	iths.
Diseases.				Urban.	Rural.	Urban.	Rural.
Small-pox			• • •	3	1	1	
Scarlet Fever		• • •	•	862	368	6	9
Diphtheria	• • •	•••	• • •	494	225	38	14
Enteric Fever		• • •	• • •	10	10	2	1
Puerperal Fever				15	14) 10	
., Pyrexia	• • •		• • •	83	40	18	7
Erysipelas	• • •	• • •	• • •	200	54	* * *	• • •
Cerebro-Spinal Fever	• • •		•••	0	2		• • •
Poliomyelitis	• • •		•••	5	8	0	2
Pneumonia	• • •	•••	• • •	1,272	247	692	173
Encephalitis Lethargica	• • •			15	11	17	5
Dysentery	• • •	• • •	• • •	87	47	0	• • •

Tuberculosis.

1. Incidence of and mortality from tuberculosis.

Owing to the action of the Public Health (Tuberculosis) Regulations, 1924, arrangements have been made whereby the Medical Officers of Health have been able to obtain much fuller knowledge of the incidence of tuberculosis in their districts, and from the information they have supplied to me I find there were 5,947 cases of all forms of the disease in the County at the end of the year. This number is made up as follows:—

TOTAL CASES.	P	ULMONAR	Υ,	Non-Pulmonary.				
OASES.	М.	F.	Total.	М.	F.	Total.		
5947	2294	2105	4399	803	745	1548		

This indicates that there is one case of tuberculosis in every 120 persons, or just over 8 per 1,000 of the population, and on reference to the mortality Tables which follow it will be found that approximately one death occurs amongst nine cases in the year.

In 1927, 465 persons died from pulmonary tuberculosis, giving a death-rate of 0.65 per 1,000 of the population, whilst 156 deaths from other forms of tuberculosis yielded a death-rate of 0.22.

The ages at death, divided into sexes, are shown in the following Table:—

Table showing primary cases of Tuberculosis and deaths from the disease classified according to ages and sex.

Age Periods		New	CASES.			$\mathbf{D}\mathbf{E}^{A}$	ATHS.	
AGE PERIODS	Pulmo	onary.		Non- Pulmonary.		onary.	Non- Pulmonary.	
	М.	F.	м.	F.	M.	F.	м.	F.
0	1 9 29 22 53 45	8 37 31 58 67 104	10 46 50 25 13 11	6 46 35 19 11 17	$\left.\begin{array}{c} 1\\4\\6\\\end{array}\right\}$	$ \begin{array}{c} \hline $	7 33 15 10	11 23 10 11
25 35 45	$\begin{array}{c} 77 \\ 66 \\ 35 \end{array}$	$\begin{array}{c c} 104 \\ 54 \\ 21 \end{array}$	12 4 3	$egin{array}{c} 8 \ 2 \ 5 \end{array}$	} 92	93	9	11
55	30	17	2	2	71	40	5	7
65 & upwards	11	2	1	1	16	3	3	1
Totals	378	399	177	152	239	226	82	74

On reference to the Table at the end of the Report, the death-rates for each Sanitary District during 1927 will be found.

The following show the number of primary notifications received since 1913:--

1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
1722	1399	1233	1048	873	856	699	642	929	971	1029	974	1232	1400	1106

An account of the treatment afforded for tuberculosis will be found in the Annual Report of the Joint Committee of the County Council, Wolverhampton and Dudley County Boroughs.

There has been a slight decrease in the number of deaths from pulmonary tuberculosis this year, but on the other hand a slight increase in those from other forms of tuberculosis. On reference to the tables at the end of the Report it will be found that whilst the death-rate from pulmonary tuberculosis is much higher in urban than in rural districts, the death-rate from other forms of the disease as practically the same in both. The Joint Committee for Tuberculosis have been in communication with those sanitary districts in which the death-rate, particularly from lung disease, has remained much higher than the rest of the County for a long period of years, and it is hoped that in these areas special investigations will be made to see if an improvement can be effected in environmental conditions, for it is well known what an important part domestic insanitation in all its forms plays in the development of this disease. As the Joint Committee are taking active steps in affording treatment, and the County Council through its Health Visiting Scheme is materially assisting the campaign against consumption in the teaching of personal hygiene, it is obvious how necessary it is that sanitary authorities should be equally active in improving the environmental conditions of their districts, for otherwise much of the work undertaken by the other authorities mentioned is liable to be undone.

2. Notification.

On looking at the Table it will be seen that there has been a reduction in the primary notifications of tuberculosis this year as compared with last; but last year was rather exceptional, for great efforts were made to ensure better notification in all districts, and I think that the number of notifications for this year is about normal, for on reference to the records for each district, it has been found that with the exception of two small rural districts there have been many more notifications than deaths from the disease. One of the chief difficulties that the Joint Committee are faced with is that in too many instances patients do not come for medical advice early enough, and therefore treatment cannot be as effective as it would be if the disease was dealt with in its earliest stages. This is due to the fact that pulmonary tuberculosis usually has a very insidious onset, and the patient does not realise the seriousness of his condition at the stage when the disease is essentially curable. If patients would only go for examination as soon as they recognise that something is wrong, instead of putting off the matter, much more could be done for them, and, as the Joint Committee now have dispensaries where skilled advice can be obtained in every area of the County, it is hoped that the public will make even greater use of these institutions than they do at present.

County Bacteriological Laboratory.

As will be seen in the Table the work of the County Laboratory continues to increase. As in former years, the results of the examination of specimens have been classified under the various diseases for which the investigation was required, and the mere numbers indicate to what extent the medical practitioners rely upon the work of the Laboratory in the conduct of their work. Whilst the numbers shown must of necessity vary with the incidence of infectious disease in the County, this must not be taken to mean an increase in that respect, but rather to the fact that with modern technique practitioners find that they can place greater reliance upon the work of the Laboratory in assisting them in the diagnosis and treatment of disease.

	Diphtheria.	Tubercle.	Enteric Fever.	Cerebro-Spinal Fluid and Swabs	Ring-worm.	Malaria.	Dysentery.	Other Examinations
Commencement of Scheme, Oct. 20, 1898, to June 30, 1899	212 378 730 571 668 507 747 755 1485 1603 970 1255 1961 1346 724 1698 1689 1071 1162 1426 797 2656 1539 2509 1643 2080 7281	23 100 92 122 148 136 159 202 150 203 249 252 266 533 638 520 430 541 763 825 1106 388 631 681 885 1006	9 74 61 49 41 32 51 63 39 150 69 85 217d 45 55 73 42 43 31 27 361e 27 112 23 198 74	 		 		
", ", ", ", 1925 ", ", ", ", 1926 g", ", ", 1927 Totals from commencement of	$ \begin{array}{c c} 5875 \\ 5462 \\ 7206 \end{array} $	$ \begin{array}{c c} 1488 \\ 1673 \\ \hline 1516 \end{array} $	45 295 292	14 18 18	501 604 499	31 13 12	$\frac{4}{6}$ $\frac{108}{}$	$\begin{vmatrix} 340 \\ 621 \\ 2057 \end{vmatrix}$

- a From this year onwards, excluding Smethwick, now a County Borough.
- b Excluding five Pottery Towns which with Hanley, now constitutes the County Borough of Stoke-on-Trent.
- c Handsworth added to Birmingham C. B., November 9, 1911.
- d Including 109 Special Blood Examinations from Cheddleton Mental Hospital.
- e Including 336 blood against B. typh, and A. and B. para-typh. from Cheddleton Mental Hospital.
- f Portion of Administrative County transferred to Stoke-on-Trent County Borough as from 1st April, 1922.
- g Portion of Administrative County transferred to Wolverhampton County Borough as from 1st April, 1927.

Under the heading "Other Examinations" are included 1,554 examinations of milk, 67 of water, three examinations of pork pies, 11 meats for tuberculosis, four meats for actinomycosis, one specimen of pus for actinomycosis, and 25 library books for organisms of infectious disease.

In connection with food poisoning cases there were 98 agglutination tests, 10 examinations of faeces, two blood cultures and 17 absorption tests. Most of these examinations were concerned with the diagnosis of a bacillus Aertrycke epidemic, and the causative organism was isolated and the diagnosis established. Owing to recent progress in this branch of bacteriology, it is no longer sufficient simply to diagnose the causative organism, but the bacillus must in addition be separated into various groups or strains, necessitating the adoption of highly-technical serological procedures.

The remainder of the "Other Examinations" involved the isolation of various micro-organisms from human or animal sources.

Venereal Diseases.

As full details were given of the County Council's scheme for treatment in the Survey Report of 1925, it will only be necessary to state this year that the work has continued as on former lines, and that there has been no increase in the number of clinics during the year.

The following table shows the number of examinations of specimens made at the County Laboratory during each quarter of the year:—

Examinations of Pathological Specimens made at the County Laboratory under the Venereal Diseases Scheme during the Year 1927.

Fo	r Detection	of	For	Other	Total.	
	Spirochetes	Gonococci	Wassermann Reaction.	tions.		
1st Quarter.	1	118	290	18	427	
2nd Quarter	1	141	352	19	513	
3rd Quarter	• • •	142	377	41	560	
4th Quarter	• •	102	316	19	437	
TOTAL	2	503	1335	97	1937	

In addition to above 580 sigma tests were made during the year and 5 bottles of vaccines for outside authorities.

Whilst under "Other Examinations" are included 15 Cerebrospinal Fluids for Cell count, Globulin, and Colloidal Gold Test, and 61 Complement fixation tests for Gonorrhæa, the examination of 11 Prostatic fluids, seven urines, and the making of three cultures.

In the following table the numbers treated during the year are set forth, which include cases from the County who attend clinics outside the area:—

STAFFORDSHIRE CASES TREATED FOR VENEREAL DISEASES DURING THE YEAR 1927.

Clinic	Syphilis	Soft Chancre	Gonorrhæa	Non-Venereal	Total	Attendances
Birmingham General Hospital Bristol (Royal Infirmary) Derby Dreadnought Hospital Greenwich Dudley Guest Hospital Kidderminster Lichfield Stourbridge (Corbett Hospital)			$ \begin{array}{c c} 24 \\ \hline 1 \\ 52 \\ 1 \\ 16 \\ 65 \\ 23 \\ 17 \end{array} $		$ \begin{array}{c c} 52 \\ \hline 4 \\ 1 \\ 107 \\ 1 \\ 33 \\ 149 \\ 48 \\ 48 \end{array} $	2593 14 99 6 4811 62 1077 2581 2846 1840
Walsall	$ \begin{array}{c} 13 \\ 109 \\ \hline 245 \end{array} $		17 104 304		319 758	$ \begin{array}{r} 1240 \\ 6616 \\ \hline 21945 \end{array} $

At the end of 1927 there were 28 medical practitioners authorised to receive free supplies of salvarsan or its substitutes for the cases of syphilis in their practice; 8 doctors on the list availed themselves of this provision during the year.

When comparing the total number of cases treated at the clinics with previous years, it was found to be practically stationary. This year 758 cases were dealt with as compared with 769; 209 of these fortunately proved, however, not to be suffering from venereal disease. On the other hand, each year some increase has been observed in the number

of attendances. This year the figure was 21,945 as against 20,124 last year. This is in every way satisfactory, for it shows that the patients have confidence in the treatment afforded, and are willing to continue attending the clinics and not disappear when their symptoms abate as was the case when the scheme started. Unfortunately, in this disease protracted treatment is required, and there is a long interval during which from the patient's point of view he is apparently cured, but when, in fact, he remains in an infectious state and is, therefore, able to transmit the disease to others.

It will be seen that in the Table several clinics are mentioned which are outside the area of the Administrative County. They are included in the Table because patients domiciled within the Administrative County went there for treatment.

Maternity and Child Welfare.

1.—The Provision and Inspection of Midwives.—

The work undertaken under the Midwives' Acts, 1902, 1918 and 1926, relates to the whole of the Administrative County with an estimated population at the middle of the year of 711,300, whilst the Health Visiting work is limited to the special Health Visiting Area of the County, which now has a population of 307,158, a decrease of 14,039, owing to the transfer of Heath Town Urban and part of another district to Wolverhampton County Borough.

274 midwives notified their intention to practise during the year. Of these 252 are trained and 22 are bona-fide midwives. The bona-fide midwives have decreased by 13 since last year, and the trained midwives have increased by two, the total number of midwives being eleven less than last year. In addition to these, 95 midwives residing in County Boroughs and adjoining Counties have also notified their intention to practise within the Administrative County.

The ages of midwives who were practising in the Administrative County in the ten years 1918—1927 are indicated in groups in the following table:—

	2	21 to 45			45 to 65			65 and upwards			Totals.		
YEAR.	North	Central	South	North	Central	South	North	Central	South	North	Central	South	
1918 1919 1920 1921 1922	38 30 50 58 51	31 50 52 64	58 40 61 60 68	72 46 36 28 21	 43 20 22 21	52 24 22 23 21	1 1	27 24 21 16	38 21 15 16 14	145 102 105 107 86	101 94 95 101	148 85 98 99 103	
1923 1924 1925 1926 1927	55 50	59 56 64	66 62 63 74 72	21 22 27 26 26	27 26 24 26 30	18 19 23 15 15	14 14	16 11 8 9 5	11 12 10 9 8	90 86 94 89 87	102 93 96 98 98	95 93 96 98 95	

As regards the number of cases attended by midwives during 1927 in the three areas respectively, the figures are as follows:—

		No. of Midwives	Births attended	Total Births.	Percentage attended by Midwives.	Mean num- ber of cases attended per Midwife.
North	• • •	87	2165	3111	69.6	24.8
Central		92	2762	3956	69.8	30.0
South		95	5355	6789	78.8	56.3

The total number of cases attended by midwives only in the Administrative County during 1927 was 10,282, the total number of births registered being 13,856. It thus appears that midwives attended 74.2 per cent. of the total births in the County, the percentage for the previous year being 83.9.

In compliance with the rules of the Central Midwives' Board, 2,897 notifications have been received from certified midwives.

The following figures show the number of notifications under four headings received during the past seven years, together with the number of births attended by midwives:—

	1921	1922	1923	1924	1925	1926	1927	
Number of Births attended by Midwives Sending for medical	12800	13033	11637	11382	11780	12201	10282	
help	$\begin{array}{c} 1948 \\ 244 \end{array}$	$1992 \\ 245$	$\frac{1894}{230}$	$2083 \\ 211$	2219 190	$\begin{array}{ c c c }\hline 2523 \\ 208 \\ \end{array}$	$\begin{bmatrix} 2564 \\ 212 \end{bmatrix}$	
Death of Mother	4	1	5	4	11	20	6	
Death of Child	39	29	20	61	60	70	115	

The following figures show the causes which occasioned the sending for medical help:—

		,		
Causes of sending for Medical aid.	Northern District.	Central District.	Southern District.	Total.
Pregnancy:				
Abortion	23	35	26	84
Threatened abortion	0	11	5	$\frac{31}{24}$
Puffiness of face and hands		$\frac{1}{2}$	8	14
Premature birth	10	11		21
Fainting	0	1	3	6
Varicose veins	6	$\hat{6}$	7	19
Fits	1	1	3	5
Vaginal discharge	_	$\frac{1}{4}$	6	15
TT - 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	0	9	15	27
Excessive sickness		$\frac{3}{4}$	6	
T 0.1.4 1		9	8	13
History of previous still-births		9	0	18
1 1. 1.			17	10
0.1 6.1		1	17 7	19
A 11	1 4	4	1	11
	10	1	22	41
	1	1	1	3
Contracted pelvis			9	9
	87	99	143	329
LABOUR:				
Abnormal presentation	35	29	91	155
Delayed or difficult	0 =	187	292	566
Placenta prævia	4	6	5	15
Hæmorrhage ante		20	34	63
Ditto post	40	17	$\frac{31}{29}$	62
Eclampsia			6	10
Prolapse of cord		$\frac{2}{7}$	$\frac{0}{2}$	14
Lacerated perinæum		124	$25\overline{2}$	459
Retained placenta and mem-		121	404	400
branes	10	22	44	85
Unsatisfactory condition		8	6	28
Inertia		$\frac{3}{28}$	5	
Contracted pelvis			$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	48
Purulent discharge	1	$egin{array}{c} 4 \ 2 \end{array}$	3	11
Cough		4	1	$\frac{2}{7}$
A 11- 44 400 i 44 44 44 6		$\frac{4}{2}$	1	-
Albuminuria	3	4		5
	298	462	77 0	1520
	200	402	110	1530

Causes of sending for medical aid.	Northern District.	Central District.	Southern District.	Total.
Lying-in:				
High temperature	28	20	45	93
Inflamed and painful leg	2	7	8	17
Convulsions	$\begin{bmatrix} 2\\2\\7 \end{bmatrix}$	1	2	5
Unsatisfactory condition	7	13	12	3 2
Offensive lochia				1
Unusual swelling of breasts	2	2	2	6
Abdominal swelling and		1		1
tenderness	_	1		1
	$\frac{}{42}$	44	69	155
	72	771		
CHILD:				
Deformities	16	11	18	45
Convulsions	7	3	10	20
Inflamed & discharging eyes	30	35	101	166
Feebleness and prematurity		44	137	219
Unsatisfactory condition	12	17	8	37
Rash	2	3	7	12
Pemphigus	$\begin{bmatrix} 2\\4\\3 \end{bmatrix}$		3	7
Spina Bifida	1	1	5	9
Hare lip and cleft palate	1	1	11	13
Club foot	1	4	5	10
Serious skin eruption	1	1	10	11
Injuries during birth		1		. 1
	115	120	315	550
C 1 M. 4-1.				_
Grand Total	542	725	1297	2564

In the following Table, in which the County is divided into three districts, the numbers of Midwive, practising, with the notifications received from them, together with the visits, interviews and inquiries of the Inspectors of Midwives, are shown:—

VISITS OF INSPECTORS, NOTIFICATIONS, INQUIRIES, &C., DURING THE YEAR 1927.

		ronners Feeding.	•	•	•	
	•	Contact with infection.		44	23	85
	ane	Laying c bash shd	4	:	4	8
		Puerpers Fever.	4	80	က	15
Inquiries	ths	Child.	20	બ	11	18
buJ	Deaths	Mother,	—	•	:	Н
	'sq	riA Ilité	15	54	52	91
		mmslini A io noit	42	48	155	245
	.90	Medical Assistan	40	26	586	361
	1	Artificial Peeding.	25	35,	22	82
	•	Contact with infection.		49	23	90
}	an.	Laying out the dead.		-	∞	27
os.	Ţ	Puerpera Fever.	4	10	က	17
Notification	ths	Child.		37	49	115
Notifi	Deaths	Mother.	ಣ	4	•	7
A	sill Births.		58	63	91	212
		mmsthil A lo noit	30	35	101	166
	.90	Medical sesistance.		725	1297	2564
	·sa	yəiv194n]	329	354	485	1168
		.sisiV	397	386	496	1279
ot 1927		Un- trained.	10	ಸರ	7	22
No. 7es, 18		Trained.	77	87	88	252
Midwives,		no .oV Jeid	87	92	95	274
		District.	North	Central	South	Totals

In addition to the routine inquiries conducted by the Midwives' Inspectors, six irregularities were specially investigated. Of these one was reported to the Local Supervising Authority, who reprimanded the midwife; one was cautioned by the County Medical Officer; one was verbally cautioned by the Midwives' Inspector at the time of her inquiry; in two instances the particulars were reported to neighbouring Local Supervising Authorities concerned; whilst the remaining case did not necessitate any further action being taken.

Since the Act came into operation, the names of 111 midwives have been removed from the Roll as a result of action taken by the Local Supervising Authority. The number of irregularities brought to notice is getting gradually less and less each year as the old bona-fide type of midwife is being replaced by the trained one.

During the year the deaths of three midwives have been reported to the Local Supervising Authority.

In the following table particulars as regards equipment, &c., of certificated midwives are set forth:—

PARTICULARS AS TO EQUIPMENT AND EFFICIENCY OF MIDWIVES VISITED.

	R	equiremen	ts	s		N			
District.	Bags E	quipped	Case Books			Read	Rend	Pass	General Efficiency
	Fully	Partially	and Forms	Person	Home	Ther- mometer	and write	Catheter	
North	82	5	86	85	84	83	84	79	80
Central	87	3	92	92	92	92	90	88	89
South	88	7	95	95	95	95	92	88	88
Totals	257	15	273	272	271	270	266	255	257

In the 1925 Report details were given of the scheme of the Committee for providing an efficient midwifery service within the Administrative County, and as there has been no alteration it will be unnecessary to repeat my former remarks.

During the year eight district nursing associations were subsidised to the extent of £245 10s. 0d, and at the end of 1927 there were seven midwives receiving subsidies, an increase of tone since the previous year. At the end of the year there were 62 local nursing associations affiliated to the County Nursing Association which undertake midwifery, and 8 non-affiliated local nursing associations undertaking the same service. No new associations were formed during the year.

The post-certificate course of training at the Tipton Training Home for practising midwives, which started in November, 1925, has been continued. Five midwives in private practice and six midwives from the local nursing associations have attended the course, which is of a fortnight's duration, and under the scheme, each practising midwife will be given an opportunity of attending the course every four years.

Under the Rules of the Central Midwives' Board, a midwife has to send for medical help if any abnormality occurs, and in the Midwives' Act, 1918, provision is made for the payment of the doctor called in in this way, the fees allowed being according to a scale issued by the Ministry of Health.

During the financial year ending March 1928, 2,556 notifications of sending for medical help were received, and out of this number medical practitioners claimed their fees from the County Council in 1136 cases, that is, 44% of the possible claims.

The fees paid by the County Council are as follows:—
FEES PAID TO MEDICAL PRACTITIONERS UNDER
MIDWIVES ACT, 1918.

Financial Year.	No. of Notifications of sending for Medical Aid.	No. of Claims received.	Percentage of Claims received to Notifications.	Total amount paid to Doctors during year.	Amounts recovered from Patients during year.
1925—26	2228	780	°/。 35	£ s. d, 1100 15 0	£ s. d. 366 9 9
1926-27	2641	1147	43	1702 19 3	408 4 6
1927—28	2556	1136	44	1598 5 9	503 1 0

The cost of collection is £150 per year. It will be observed that each year there has been an increase in the percentage of claims of fees from doctors in proportion to the number of requests for medical assistance. On the other hand, during each year, there has been an increase in the amount recovered from patients.

No alteration has taken place in the income scale, which was drawn up for the guidance of the Collector when making application for the recovery of the fees, which is as follows:—

- (i.) Where the net weekly income of the family after deducting 3s. 6d. for each child under 14 years of age does not exceed 30s., the County Council shall not claim repayment of the medical practitioner's fee.
- (ii.) Where the net weekly income of the family, calculated as above, is over 30s, but does not exceed 45s, the County Council shall claim repayment of one-half of such fee.
- (iii.) Where the net weekly income of the family, calculated as above, exceeds 45s., the repayment of the whole of such fee shall be claimed.

Owing to the varying charges made for mileage by the medical practitioners, an arrangement has been made with the Local Branch of the British Medical Association for a uniform mileage fee of 1s. 6d. per mile one way only after two miles from the doctor's residence.

2 — Work Under the Health Visiting Scheme —

As already mentioned, the County Health Visiting Area serves a population of 307,158, which includes 14 urban districts, 14 rural districts, two parishes comprising part of a rural district in Shropshire, and the parish of Dudley Castle Hill.

In April of this year the Heath Town Urban and part of the Seisdon Rural District were transferred to the County Borough of Wolverhampton.

There has been no alteration in the scheme during the year which was fully described in the Survey Report.

(i) Combined Clinics.

At the end of December, 1927, there were 26 combined school clinics and infant welfare centres and four infant welfare centres in the Seisdon Rural District. In 11 of the larger centres the Committee have provided the necessary equipment for ante-natal work, these are at Audley, Biddulph, Brockmoor, Brownhills, Cheadle, Harriseahead, Pelsall, Sedgley, Tamworth, Uttoxeter and Willenhall these areas the midwives were specially invited to bring expectant mothers to the centre, and in order to ensure their co-operation it was made clear to them that these clinics were not for treatment and that the cases would not be taken over from them. In the event of any special treatment being found necessary, the Medical Officer of the Centre notifies the midwife so that she can see that the patient obtains suitable treatment. arrangement appears to work satisfactorily, and I have no doubt that as a result of the post-certificate course of training to midwives, particularly in ante-natal work, they will take full advantage of the facilities now offered at these centres. This part of the Maternity and Child Welfare Scheme must necessarily be slow in development, but I think that the arrangement now made with the midwives will have the desired effect in due course.

At the end of the year the Lichfield Rural District Council gave notice that they were going to close their infant welfare centre at Rugeley, which up till then had served the Rugeley Urban District in the County Health Visiting Area. Accordingly, arrangements were made by the County Council to establish a combined school clinic and infant welfare centre at Rugeley.

The three voluntary centres at Mayfield, Rocester, and Tutbury, all in the County Health Visiting Area, have been continued, but the County Council are not concerned in any way with their management.

In the Table at the end of the Report will be found details of the work of the centres In 1927:—

- 511 attendances were made by expectant mothers, compared with 661 in the previous year.
- 19,642 children under one year, as against 20,438 in 1926; and 18,953 as against 17,818 children between one and five years attended the centres

Although the corresponding attendance figures for last year have been given, they are not strictly comparable owing to the loss of two centres in the Heath Town Urban District which in April became part of Wolverhampton. If this is borne in mind, and also the fact that the actual number of births was 458 less, it will be seen that no ground has been lost, whilst on the other hand there has been an increase in the number of children between one and five who have attended the centres.

The names and addresses of the centres are as follows:—

Aldridge ... '... Church Room.

Audley ... Primitive Methodist Schools.

Biddulph ... Church Hall.

Brockmoor ... St. John's School.

Brownhills ... Mount Zion Primitive Methodist Schools.

Cheadle ... Charles Street Wesleyan School.
Codsall ... Trinity Free Chapel School, Codsall.

Hamstead ... Church Institute.

Harriseahead ... Wesleyan Sunday School.

Kidsgrove ... Town Hall.

Kingswinford ... Wesleyan Methodist School, Moss Grove.

Kinver ... The Old Conservative Club, Dark Lane, Kinver.

Lichfield ... Mill House, City Station Road.

Lower Gornal ... Memorial Hall.

Norton Canes ... Craddock Memorial Schools.

Pelsall ... Wesleyan Central Hall.

Penn ... St. Philip's Church Rooms, Penn Fields.

Pensnett ... St. James' United Methodist School.

Quarry Bank ... Primitive Methodist School, New Road.

Rugeley ... Congregational Sunday School, Heron Court, Rugeley-

Sedgley ... Bleak House.
Short Heath ... Church Institute.

Talke New Road Wesleyan School.

Tamworth ... Wesleyan Schools, Victoria Road.

Uttoxeter ... Congregational Sunday School,

Carter Street.

Walsall Wood ... Primitive Methodist School, Lichfield Road.

Wednesfield ... Church Institute.

Willenhall ... Nurses' Home, Walsall Road.

Wombourn ... Wombourn Institute.

Wordsley ... Primitive Methodist School.

At these centres the work is chiefly educational, and ordinary cases requiring treatment are referred to their family doctor. Crippling conditions, however, do not come under this category, and during the year 65 cases were sent to orthopædic hospitals for out-patient treatment in the first instance, 13 being treated as in-patients. The classification of the conditions dealt with is as follows:—

Genu valgum	• • •	1
Rickets	• • •	13
Knock Knees	• • •	5
Infantile Paralysis	• • •	5
Congenital Abnormality	• • •	1
Flat Feet	• • •	4
Talipes equino varus	• • •	6
Bow Legs	• • •	15
Club Foot	• • •	4
Congenital torticollis	• • •	1
Mid dorsal kyphosis	• • •	1
Poliomyelitis	• • •	7
Partial Dislocation of Tarsus		1
Wasting of Left Arm	• - 8	1

The importance of treating these conditions as early as possible is well known, and until arrangements were made to this end most children so suffering had to wait until they entered school before treatment was afforded, when it naturally had to be more prolonged and more costly, besides not being so efficacious.

Children suffering from squint who are under school age are now treated by the Ophthalmic Surgeon of the Education Committee, so that the condition is dealt with as soon as it arises, and in this way the danger of the loss of sight in the squinting eye by disuse is obviated. During the year 11 cases were treated in the Health Visiting Area.

(ii.) Health Visitors.

There are now 35 whole-time health visitors on the staff, who serve an estimated population of 225,482. These health visitors serve the more thickly populated portions of the area except in the rural districts of Cheadle, Leek Kingswinford, Tutbury and Walsall. In the remainder of the districts the work is undertaken by 43 part-time health visitors, serving a population of 81,676. These are district nurses employed by district nursing associations.

The arrangement for the instruction of the health visitors has been continued this year. On appointment, each is attached to the health visitors for the Sedgley area for one month, and during the winter months, lectures are given at Stafford on various subjects connected with the health visitor's work.

The visits paid by the health visitors during the year are as follows:—

To expectant Mothers ... (1) First visits, 1,994. (2) Total Visits, 5,083

To infants under 1 year .. (1) First visits, 5,270. (2) Total visits, 44,079.

To children 1 to 5 years Total visits, 78,028.

No maternity homes have been established by the County Council as yet, but they have arrangements with the Mrs. Legge Memorial Home, Wolverhampton, for dealing with prospective unmarried mothers, who are received at the home for their confinement and remain there for six months. The County Council contribute 40/- per patient for six weeks, the cost for the remainder of the period being defrayed from philanthropic sources. By this means, 10 cases were dealt with in 1927.

In addition, arrangements have been made for midwifery cases to be sent from the Health Visiting Area to the following Maternity Homes:—Ashbourne, Newport, Bath Road Maternity Home, Wolverhampton, and Tipton Maternity Home.

Under Part II. of the Midwives and Maternity Homes Act, 1926, the County Council, as the Local Supervising Authority, have been responsible for the registration of all maternity homes from the 1st January, 1927, throughout the administrative County. Eighteen applications for registration were received during the year, one was withdrawn, and 17 homes have been registered. In the case of one home, the Local Supervising Authority, having refused to register it, a successful appeal was made at the local police court. One application was made for exemption from registration, which was allowed. These maternity homes, in the majority of cases, are only small ones which have been registered for one or two beds only, and are at the residence of a midwife.

During the year £18 11s. 0d. was allowed by the County Council, under Section 2 (1) of the Midwives and Maternity Homes Act, to midwives as compensation for loss of practice on suspension after being in contact with a septic case, the midwife not being in default.

Infantile Mortality.

The infant mortality in the Administrative County for 1927 was 80 per 1,000 births as against 72 last year, the figures for the urban districts being 84, and for the rural districts 69, whilst for England and Wales during this period the infant mortality rate was 71.

The midwives during the year have reported 115 deaths of infants during the first 10 days of life, the causes of death being grouped as follows:—

Asphixiated	•••	• • •		9
Congenital Hear	t	• • •	• • •	9
Convulsions	• • •		• • •	14
Deformities		• • •	• • •	11
Feebleness and	Prematu	rity	• • •	63
Injury at Birth	• •,•	• • •		4
Marasmus	• • •	• • •		1
Melina Neonator	cum	• • •	• • •	1
Overlaying	•••	• • •	• • •	2
Pneumonia			• • •	1

These deaths occurred in the practice of midwives in cases where no doctor was in attendance, and the number has no relation to the infantile death-rate which is calculated on the total number of deaths under one year per 1,000 births, the total number of such deaths in the Administrative County being 1,112.

On examining the detailed causes of death it was found that the increased infant death-rate this year was due chiefly to more deaths from whooping cough and influenza. Those from congenital debility and premature birth remained practically stationary and resulted in 453 deaths. With regard to these it was mentioned in last year's Report that an International inquiry had started (and this is still proceeding) on the causation of such deaths as well as those of still-births, for whilst various public health measures have effected a very great reduction in the infantile deaths from other causes, these remain practically constant.

Maternal Mortality.

It will be seen from the following Table that the maternal mortality is 3.7, the same as last year, and indeed there has been very little alteration in this death-rate for many years. On looking at such a Table as this the bare facts shown are liable not to be sufficiently appreciated, and I think that many will be surprised to learn, as they will from this Table, that in the Administrative County on an average one woman loses her life every week from child-birth, whilst there is no record of the number disabled, often permanently, by motherhood.

There is little doubt that many deaths could be prevented by adequate ante-natal care, skilled assistance in suitable surroundings at the confinement, and suitable post-natal treatment when necessary. To attain such an ideal is not easy and, without the assistance of public authorities, almost impossible. For some years the County Council have been actively engaged in arranging for the provision of suitably trained midwives throughout their area, and two years ago they adopted a scheme for post certificate instruction for practising midwives at which special attention is paid to ante-natal work. At the larger infant welfare centres ante-natal clinics have been started, and in due time it is hoped to extend this work to all the other centres.

Since 1918 arrangements have been made for the payment of medical fees in necessitous cases when a doctor has been called in by a midwife under the rules of the Central Midwives' Board, so that now there is no reason why a woman shall not receive medical treatment when required during pregnancy or at her confinement.

During the year arrangements have been made with maternity homes, which have not been established by the County Council, but are conveniently near to the various parts of the Health Visiting Area, where complicated cases of midwifery can be sent, or where women can go before their confinements who require special treatment. The registration of maternity homes belonging to practising midwives under the Maternity Homes Act is another step that has been taken to adequately supervise the practice of midwifery. In another section of the Report details will be given of the scheme adopted for the treatment of cases of puerperal prexia.

The Ministry of Health have recently set up a Committee to inquire into maternal deaths with the view to seeing what further assistance is required, and it is hoped that further light will be thrown upon the causation of puerperal fever, for, although there is considerable knowledge of its causation, there are still cases in which this remains obscure. It must be admitted, however, that without the active co-operation of the women themselves, much of our efforts will be of little avail. The importance of making adequate preparation for a confinement is well recognised, but comparatively few realise the necessity of ante-natal care, especially during the latter months of pregnancy, and, when investigating a maternal death, it is only too frequently found that the woman did not seek advice early enough.

		Deaths	Maternal	
Year.	Year. Births. Puerpe		operal Fever. Other Diseases and Accidents of Parturition.	
1918	15,339	16	27	2.8
1919	15,101	27	40	4.4
1920	20,116	26	63	4.4
1921	18,848	24	44	3.6
1922	16,394	21	42	3.8
1923	15,342	20	40	3.9
1924	15,546	15	28	2.7
1925	15,241	15	32	3.1
1926	14,535	19	45	4.4
1927	13,856	25	27	3.7
Mean for 10 years	16,031	20	38	3.6

With regard to the deaths of mothers from other accidents and diseases of parturition, seven were reported by midwives as having occurred in their practice out of a total of 27. It is now the duty of a midwife to notify the death in her practice even if she attends as a maternity nurse,

but if the case has been removed to hospital and died there we should not have been informed by the midwife, so that our record of the causes of death under this heading is incomplete.

Under the recent scheme of the Ministry of Health we shall have to make arrangements with the Registrars of Deaths to notify us immediately on the occurrence of each death, and then a special inquiry will be made for the information of the Ministry of Health.

The causes of the seven deaths reported by midwives are as follows:—

Heart Disease	• • •	• • •	1
Post-Partum Hæmorrhage	• • •	• • •	2
Pulmonary Embolism	• • •	• • •	1
Tuberculosis	• • •	• • •	2
Placenta Praevia	• • •	• • •	1

It will be observed that three of these were due to general disease and were not caused by conditions connected directly with the confinement.

PUERPERAL FEVER AND PUERPERAL PYREXIA REGULATIONS.

The new Regulations dealing with these conditions came into operation on the 1st October, 1926. Puerperal Pyrexia is now defined as meaning any febrile condition occurring in a woman within 21 days after childbirth or miscarriage in which a temperature of 100.4° or more has been sustained during a period of 24 hours or has recurred during that period.

The cases coming within this classification have to be notified to the Medical Officer of Health immediately, and as a result there has been a decrease in the number of notifications of puerperal fever, for in the latter there is always a rise of temperature as defined in the previous paragraph for puerperal pyrexia. On the other hand, many of the conditions which cause a rise of temperature during the puerperal state can be ascribed to general diseases and not to those especially connected with the confinement, but as it was not possible to clearly define puerperal fever, there

is little doubt that formerly many cases of this condition were overlooked, and it was decided to have all febrile conditions, whatever the cause during the puerperal state, notified, so that each case could be investigated and adequate treatment provided.

During the year 123 cases of puerperal pyrexia were notified, 74 of which occurred in the practice of midwives. The latter were specially investigated by the Midwives' Inspectors and the causes of the rise of temperature were as follows:—

Influenza		• • •	• • •	20
Chill	• • •		• • •	5
General Condition				16
Retained Clot	• • •	• • •		1
Engorged Breasts	• • •	• • •		2
Forceps Delivery				3
Abortion				1
Retained Placenta	• • •			1
Septic Absorption				2
Appendicitis				1
Inflamed Leg	• • •	• • •		1
Post-Partum Hæmo	rrhage			1
Pneumonia				2
Constipation	• • •			3
Impacted Bowel				1
Pulmonary Embolisi		• • •		1
Albadolens (Phlegma	asia)	• • •		1
Mastitis		• • •		2
Heart Disease		• • •		1
Scarlet Fever	• • •		• • •	1
Salpingitis				1
Pleurisy				3
Pulmonary Tubercu	losis			2
Acute Rheumatism		• • •		1
Sapraemia		• • •	• • •	1

In the County Health Visiting Area the Committee have provided special facilities for a consultant to be called in by the notifying practitioner if necessary, and have arranged with the large hospitals in the County to take cases of puerperal pyrexia when required, and in those instances in which the patient is too ill to be moved a trained nurse is

sent to her home. The notifications from medical practitioners under the Puerperal Pyrexia Regulations were as follows:—

Puerperal Pyrexia Notifications, 1927.

		In Hea	alth	Not in I	<i>Health</i>	
	V_{i}	isiting	Area.	Visiting	Area.	Total
Urban Districts	• • •	$2\overline{4}$	• • •	59	• • •	83
Rural Districts	• • •	27	• • •	13	• • •	40
1						
						123
					_	

The notifications of puerperal fever, as has already been noted, are less than last year, for although the practitioner could notify a case of this kind, many have not done so, as the case has already been notified under the Puerperal Pyrexia Regulations. During the year 29 cases were notified in the Administrative County as follows:—

PUERPERAL FEVER NOTIFICATIONS, 1927.

	In	Healt	h N e	ot in He	ealth	
	Visiti	ng Ar	ea. V	isiting A	Area.	Total
Urban Districts	• • •	7	• • •	8	• • •	15
Rural Districts	• • •	6	• • •	8	• • •	14
						29

STILL-BIRTHS.—212 still-births were reported by midwives, associated with the following conditions:—

	_		
Albuminuria	• • •		7
Ante-Partum Hæmorrhage	7	• • •	14
Cord prolapse	• • •		12
Cord, round neck		• • •	8
Deformities	• • •		13
Difficult Labour	• • •	• • •	16
Fall and Shock	• • •		14
Ill-Nourished	• • •	• • •	4
Maceration	• • •		71
Malpresentation	• • •	• • •	9
Placenta Prævia	• • •	• • •	1
Premature	• • •	• • •	10
Spina Bifida	• • •	• • •	3
Unsatisfactory Condition o	f Moth	er	30

OPHTHALMIA NEONATORUM.—The accompanying Table shows the cases for the last five years, together with those treated at hospitals or at home, with the result obtained. It will be seen that out of 166 cases, 162 were completely cured, which is a very highly satisfactory result in view of the virulent nature of this disease. It will also be noted that only a small proportion of children were sent to hospital, 13 had to be received as in-patients, whilst in 18 cases out-patient treatment sufficed.

CASES.							
	Notified	Treated.		Vision un-	Vision impaired	Total Blind-	Deaths.
	Tyourrea	At Home	In Hospital	impaired	Impaired	ness.	Deaths.
1923	78	64	14	75	2	• • •	1
1924	109	89	20	107	1	•••	1
1925	138	96	*42	135	1	•••	1
1926	166	149	†17	162	3	•••	1
1927	166	135	‡3 1	162	3	• • •	11

^{*} One case removed from district; result not known.

W. D. CARRUTHERS,

County Medical Officer of Health.

Stafford, August, 1928.

^{† 12} In-Patients, 5 Out-Patients. ‡ 13 ,, 18 ,,

[&]quot;

TABLES

Table showing Population, Number of Persons per Acre, Birth and Death-rates, as well as the Death-rates at all ages and among Children under 1 year, and the Death-rates from Zymotic Diseases, Tuberculosis, Diseases of the Respiratory Organs, &c.

URBAN.

	Population	ation							Zymotic		mortality				_		(8				oan
	at all ages	ages	su		1		0001	Per	1000	ndod jo	opulation		Per 1000		1 τ		arro	A			18M UV (
DISTRICT	Census 1921	Estimated to middle of 1927	Numbers of Perso	Birth-rate per 100 noitsludoq 10	General mortality General montality Ad hardradust	Standardized Der Rate Mortality in childr	nuder one year per	Enteric Fever	Measles	Scarlet Fever	Whooping dance	Diphtheria		Tuberculosis of Respiratory Syste Other Tuberculou	Diseases Cancer, Malignar	Disease ——————————————————————————————————	of Ila) sinomuenq	Other Respiratory	Cirrhosis of Liver	Acute and Chroni Rephritis	Congenital Debility Malformation ; Prei Pirth
Amblecote	3,182	3,011	4.5	16.6	13.9	:	09			•	0.33	99.0	0	.66 0.5	.33 1.5	.33 1.33	3 1.33	:		0.66	0.33
Audley	14,738	14,990	1.8	15.6	10.0	9.8	68	:	. 0.13	0.06	0.13	0.13	0	.46 0.1	3 1.1	3 0.93	3 0 26	90.0	:	0.46	0.20
Biddulph	7,931	8,502	1.5	18.2	10.1	:	71	:	•		•	0.23	6.4 0	35 0.4	[7].1.1	7 0.2	3 1.29	0.11	:	•	0.35
Bilston	27,556	30,820	16.5	23.8	5 0 1	5.4 1.	12	:	0.13	0.03	0.45	0.13	5.0 1	23 0.2	26 1.1	7 1.5	9 2.69	0.00	0.03	0.35	99.0
Brierley Hill	12,479	13,350	13.1	19.8	3.8	3.6	86	•	•		0.15	0.52	7.5 0	67 0.1	5.	.50 1.8	7 1.72	0.15	0.15	0.45	0.67
Brownhills	18,248	20,690	3.3	20.0	9.6	6.6	84		. 0.14	•	0.43	0.05	0	.43 0.09		.82 0.6	7 1.16	0.19	0.05	0.34	0.92
Cannock	32,322	36,810	4.6	20.6	10.6 110	10.4	85		. 0.35		0.21	:	1.8 0	43 0.1	9.1	03 0.7	3 1.27	0.16	:	0.32	0.65
Coseley	24,213	25,720	6.9	20.4 1	2.8	8. 61	92		. 0.15	:	0.35	0.04	3.3	50 0.1	5 0.8	5 1.1	6 2.14	0.19	0.04	0.07	0.50
Darlaston	18,208	19,020	20.8	22.8 1	12.4 18	13.0 10	103		0.05	:	0.15	0.05	4.6 0.	.68 0.1	5 1.4	7 0.68	8 1.52	0.15	:	0.15	0.99
*Heath Town	13,082	•	16.5	19.9	7.4	:	166	:	•	0.27	0.83	•	•	0.2	7 0.5	5 2.2	1 1.38	1.11	:	0.27	1.38
Kidsgrove	9,488	10,660	3.6	18.5	2.7		27	· :	0.03	:	0.28	0.09 2	5.4 0	.65 0.0	.09 0.6	65 1.8	7 2.25	0.03	:	0.28	0.28
Leek	17,214	16,780	11.5	18.4	14.3 13	2	77	0.0	 	0.12		0.06	2.9 1	.01 0.06	<u> </u>	73 1.31	0.05	0.29	90.0	0.59	0.47
Lichfield	8,393	8,406	2.4	18.6	3.7		38 0.1	12	•	0.12	0.47		0	59 0.3	1	8.0 99	3 0.47	•	:	0.12	0.35
Newcastle	20,410	21,210	12.8	23.0 1	3.5	13.0	86			•	0.23	0.19	2.0 0.	63	8 0.	89 0.8	5 1.89	0.19	:	0.28	1.13
Perry Barr	2,700	3,915	0.0	0.9 16.1	7.4		63	:	•	•	•	:	0	25 0.2	5 1	.02 0.2	5 1.02	0.25	:	0.25	0.76
Quarry Bank	7 20 4	8,728	<u></u>	17.6	0.3	•	 			•				08:	0.68	8 0.68	8 0.68	0.11	:	70	0.23
			13						-				-	-						-	

Deaths occurring during the year 1927, classified according to Diseases and Localities, together with Births occurring during the year.

URBAN.

or unknown		•			9.1	:	-	•		•			• •	\vdash	:	•
Diseases ill-defined	:	:	:			:		:		·:			4	10	<u>্</u>	4
Other Defined Diseases	S	c1 &	14	70	20	26	62	69	37	1.0 1.0	15	46	17	45		ř
Other Deaths from Violence	H	00	4	14	00	00	14	0	00	:	9	4	က	9	က	9
ebioide			H	က	•	•	7	<u>c1</u>	•	•	က	•	O.	က	•	
Congenital Debility and Malformation, Premature Birth		က	60	21	<u>.</u>	19	24	13	19	70	က	∞	ಣ	24	က	©1
Diseases of Pregnancy and Parturition	:	•		22	•	-	H	¢1	, –	•	•	:	•		:	•
Puerperal Sepsis Other Accidents and	:	•	•	•	-	:		•	H	:	:	1	:	•	:	:
Acute and Chronic Nephritis	ে	2	:	11	9	7	15	CJ	က	H	က	10	H	9	post.	70
Cirrhosis of Liver	:	:	:	-	टा		:		:	:	•			:	:	: 1
Appendicitis and aitigraphitis		က	2	27		•	•	ा	:	e a •	•	•	:			•
Diarrhæa, &c., (under 2 years)	:	:	H	11	्य	:	6	7	কা		70	4	•		:	
Ulcer of Stomach	-	-	П	က	20	•	ಣ	ಣ	4		-	¢1	Ç1	•	:	က
Other Respiratory Diseases	:	-	П	ಣ	¢.1	4	9	20	က	4		70	:	4		74
Pneumonia (all forms)	4	4	1.1	83	c1 c3	24	47	55	29	70	24	16	4	40	4	9
Bronchitis	4	14	c1	49	25	14	27	30	13	00	20	22	7	18	F-1	9
Arterio-Sclerosis	П	5	က	01	C 1	00	20	Т	က	:	H	2	<u>ن</u>	10	<u>u</u>	70
Heart Disease	2	23	12	60	11	23	39	31	c1 80	H	15	28	16	43	က	13
Verebral Hæmorrhage, ke	ಣ		ಣ	24		12		21	10	က	က		10	13		23
Diabetes	:	•	H	4	ω	<u>01</u>	4	c1	က	H	•		4	SI	:	:
Rheumatic Fever		S	:		:	:		•	<u></u>	:	7	:	4	:	4	
Oancer, Malignant Disease	4	17	10	36	20	17	38	22	28	<u>. 51</u>		29	-	19		
Other Tuberculous Diseases	T	c ₁	4	00	c ₁	0.1	7	4	63		 -		က	9	1	
Tuberculosis of Respiratory System	्य	-	က	က္ခ	6	6	16	133	13	•	ţ~	17	20	19		7
Meningococal Meningitis	:	:	•	mi	:	:	•	1	:		:	7		:	:	:
Encephalitis Lethargica	•	:	:	က	•	H	•	0.7	-	:	•		1	:	•	
rzuonyuI	4	11	7	17	12	10	20	18	19	01	4	21	10	70	-	4
Diphtheria	21	c ₁	ा	4	<u></u>	-	:	-	П	•	, H	F-4	•	4	•	7
Whooping Cough		c ₁	:	14	23	0	∞	6	က	က	က	:	4	70	•	:
Scarlet Fever	:	7	;			:	:	•	:		:	ा		•	•	:
Measles		थ	•	4	•	ಣ	13	41		•	1	•	•	•	•	
Smallpox	:	:	:	:	:	:	•	:	:	:	:	П	:	:	:	:
Enteric Fever		:	:	:	:	•	•	:	:	:	:	:	7	•	:	
Deaths under 1 year	က	16	H	85	23	35	65	40	45	12	25	24	9	48	4	4
Deathsfrom all causes,	42	151	98	463	184	199	391	329	236	63	136	241	115	286	29	81
Births	50	234	155	733	265	414	759	525	435	72	197	309	157	488	63	154
	-:-	•	•	:	ı.		•	•	•	vn	•	•	•	•	•	nk
CT.	te	•	q	:	Hill	Ils	•	•	п	Town	Де	•	-	le	Barr	Bank
DISTRICT.	eco	20	ılpi	n	h	nhi	ock	ey	sto	th 7	TO	•	ielö	ast	m m	
Dis	Amblecote	ıdley	Biddulph	Bilston	ierl	OW.	Cannock	sel	ırla	[eat	Kidsgrove	ek	chf	3WC	rry	uarry
1	Ar	Au	Bi	Bi	Bri	Br	C.	පි	Dê	*	K	Le	I	Ž	Pe	Quarry

* First quarter of year.

75
0
3
5
tin
4
0
Ö
.
Z
M
M
M
100

	рич		Congenital Debil Malformation Premature Birth	0.58	0.54	0.65	1.01	0.31	0.85	0.37	•	1.10	0.71	0 65	3.46	0.85	0.50	0.65	•
		oino	Acute and Chrasitis	0.37	0.18	0.30	0.20	0.10	0.51	0.12	0.54	0.16	0.35	0.24	•	0.36	0.30	0.28	•
		ver	ri.I to sisonrrito	· · ·	•	:	:	0.10	:	•	:	0.05	0.35	:	:	0.04	0.03	0.03	•
		OLA	Other Respirat	0.21	•	0.10	0.20	0.27	:	0.25	•	0.18	0.17	0.12	0,11	0.18	0.10	0.16	
	(sw	Tol	Pneumonia (all	0.91	0.18	1.15	0.40	0.55	0.34	1.24	0.00	2.11	1.42	1.55	69.0	1.32	1.38	1.37	
			Bronchitis	0.63	06.0	1.10	1.21	0.76	1.52	0.87	:	0.64	0.89	1.01	1.15	0.85	1.14	0.95	
-		ant	Cancer, Malign Disease	0.96	0.36	1.30	2.03	1.11	1.69	1.74	1.99	0.99	1.24	0.83	0.58	1.23	1.01	1.09	
			Other Tubercu Diseases	0.23	0.36	0.10	0.20	0.14	0.17	0.25	:	0.37	0.71	0.35	0.11	0.13	0.23	0.21	
			Tuberculosis of Respiratory Sy	0.72	1.26	0.65	0.60	0.69	0.85	0.37	0.36	0.83	0.71	1.10	0.11	1.00	0.87	0.73	:
	Per	1000 Births	Diarrhæa, &c (ersysyears)	1.2	•	2.4	:	4.4	:	24.1	13.3	11.9	:	10.2	5.3	6.8	7.3	7.6	8.3
	20	1	Diphtheria	0.05	:	0.10	0.20	0.03	0.17	0.12	:	0.05	:	•	:	0.04	0.06	0.07	0.08
monto lita	ortion	population	Whooping Cough	0.04	:	0.15	0.20	0.10	•	:	:	0.27	:	0.09	0.23	1.37	0.13	0.24	0.10
tio m			Scarlet Fever	•	•	:	:	•	•	•	:	:	•	:	•	:		0.01	0.01
Tumotio	200 of	1000 01	Меавјев	0.14	•	•	•	0.03	•	•	•	0.24		0.15		:	90.0	0.10	0.12
	7	Fer 1	Smallpox	:	•	•	:	:	•	:	•	:	:	:	:	:		0.00	0.00
			Enteric Fever	•	•	•	•	•	•	•	:	•	:	0.03	:	:	•	0.00	0.01
	00	ь 100 якеп	Mortality in child under one year pe registered births	69	37	69	105	48	65	96	26	109	46	101	32	104	74	84	71
	ч	est	Standardized D	10.7		11.6	:	0.0	•	•		13.2	•	12.4	:	13.9	12.1	:	:
1	rəd		General Mortal	10.3	10.8	11.8	11.5	9.9	13.4	14.7	13.5	13.3	11.5	12.4	8.1	13.0	11.9	12.0	12.2
		000	Birth-rate per l noiselugod to	18.5	19.0	20.3	21.0	15.8	18.3	20.7	13.5	22.5	19.0	20.4	21.5	20.5	18.4	19.9	17.1
	S	uos	Number of per	11.1	8.5	5.1	4.6	8.3	5.5	28.2	3.6	17.1	5.4	14.6	3.4	17.1	5.5	6.2	:
	tion		Estimat'd to middleof 1927	42,690	5,561	19,940	4,935	28,830	5,894	8,018	5,527	37,300	5,629	33,560	8,639	21,850	29,740	504,330	;
	Population at all ages		Census 1921	40,025	4,607	17,300	4,469	28,635	5,552	8,030	5,488	34,130	5,363	30,390	7,446	19,665	29,232	478,320	:
			DISTRICT	Rowley Regis	Rugeley	Sedgley	Short Heath	Stafford	Stone	Tamworth	Tettenhall	Tipton	Uttoxeter	Wednesbury	Wednesfield	Willenhall	Wolstanton	Totals and Averages	107 large towns in England

Or unknown	•	•	•	•	•	•	•	•		•		•	•	ಣ	
Other Defined Diseases	54	10	42	12	62	16	25	12	103		99	20	40	43	1010
Violence Violence	12	4	9	c 1	6		က	c 1	10.	03	10	•	ಯ	C	80
Suicides	2		c 1	—	က	:		কা	9	-	ा	•		63	52
Premature Birth Malformation Congenital Debility and	25	က	13	70	0	70	භ	•	41	4	61	4	18	15	327
Other Accidents and Diseases of Pregnancy and Parturition	 	•	:		•	:		:	:	•	्य	•	П	ବୀ	16
Puerperal Sepsis	তা	•		:	ତୀ -	•	7	•		•	4	:	ಣ	•	18
Acute and Chronic Xephritis	16		9	-	9	ಣ		ಯ	9	c1	∞	•	∞	0	144
Cirrhosis of Liver	:	:	:	:	60	•	:	:	0.1	0.1	:	•		-	15
Appendicitis and sitting T	_22	•	03	•		•	c 2	 1		•	•	•	•		66
Under 2 years)	-	•		•	2	•	4		10	•			က	4	92
Ulcer of Stomach or Duodenum	70	•		•		•	•		4	•	က		61	4	52
Other Respiratory	6	•	<u>01</u>	H	∞	•	0.1	:	[-	-	4		4	ಣ	83
Forms) (all forms)	39	 (23	0.1	16	61	10	70	62	00	55	9	53	41	692
Bronchitis (all	27	70	22	9	22	6	2	:	24	70	34	10	18	34	4836
Arterio-Sclerosis	22	03	ಣ	ಣ	[-	67	0	<u>01</u>	9	4	20		20	23	98
Heart Disease	42	23	25	ಣ	37	12		20	42	00	41	10	30	54	77 1
Cerebral Hæmorrhage, &c.	32	70	16	ಣ	22	7	12	23	17		0		10	18	300 67
Diabetes	<u>c1</u>	•	ಣ	•	9	•	•	•	ಣ		ಣ		•	9	5116
Rheumatic Fever	•	9	:	:	4	:	:	•	0.1	•	:	:	med	:	116
Uancer, Malignant Disease	41	23	26	10	35	10	77	11	37	2	\$3	5	52	30	553
Other Tuberculous	10	22	c 1	1	4		<u>0.1</u>	•	14	4	12		ಣ	[~	109
Tuberculosis of Respiratory System	60	7	13	60	20	YO	ಣ	ទាំ	31	4	37		22	26	371
Meningococal Meningitis		•		•	:	•	•	•	•	•	•	:	:	•	9
Encephantis Lethargica	:		:	:	•	:	:	•	4	•	•		•	<u>01</u>	13
ezuənyuŢ	55	***	20	C1	10	10	9		22	•	44	বা	16	10	378
Diphtheria	7	:	ଣ					:	7	•	:	:	7	্য	38
Whooping Cough	23	:	ಣ		က	:	•	•	10	•	က	2	30	4	121
Scarlet Fever	9	•	•	-:-	•	•		•	: 6	•	:	•	•	•	9
Measles		:	•	<u>:</u>	, i	:	•	•		•			:	· 21	
Enteric Fever		•	•	•	•	•	•	•	•	•	•	•	•		21
Desths under 1 year	55	4	28	11.	22	<u></u>	16.	<u></u>	92	٠	6:0	· ·	46	<u>+</u>	847
səsngə	442	0.9	70	22	288	62	00	55	498	55	1	02	28. 28. 28.	10 70	
Deaths from all			5 23				3 11	5		9 2	4 41			೧೦	7 3076
Births	190	106	405	104	455	108	166	27	841	201	684	186	441	549	10027
HO	Regis	•	•	ath.	•	•	di	:	•	:	ednesbury	ield.	:	. no	
DISTRICT		ley	ey	He	rd	•	ort	nha	n	rete	qsə	ednesfield	illenhall	olstanton	Totals
DIS	Rowley	Rugeley	Sedgley	Short Heath	Stafford	Stone	Tamworth	Tettenhall	Tipton	Uttoxeter	Wedn	Wedn	Willer	Wolst	

m of Stafford R.D. from 8.468 in 1911 to 11,029 in 1921 is accounted for by the temporary presence stricts is calculated on an estimated population of 212,180 birth-rate in the rural The mean

OI THE HOLD IN	•		ø	•	•		•			•	•	۰	٠	perel	:	:	:	:	21
Diseases ill-defined or unknown.	<u>~~</u>	41	51	<u>:</u>	্য	00	<u> </u>	46	₩.	G 3	<u> </u>	•	<u>ت</u>	38	° 00		24	80 70	29
Other Defined Diseases.				:		4	<u>01</u>				<u>্</u>				- 150		4	00	4
Other deaths from Violence.				:		C1		<u> </u>	•	•	11	•	4	2	4.0	21			88
Suicide.	•		•	•	c1	ಞ	•	4	•	 1	(•			Ţ	harred	-	•	16
Congenital Debility and Malformation, Premature Birth	•	14	222		7	11	GI GI	17	<u> </u>	-	10	•	70	w	ಣ	m	4	13	126
Other accidents & Diseases or Pregnancy & Parturition	•		:	•		7		•	<u>01</u>	•	•	•	•		-	•	•	•	11
Puerperal Sepais.	:	•	<u>01</u>	:	•	\vdash	•	-	•		•	•	:		7	:	П	:	
Acute and Chronic Venhritis.	-	20	9	•		9	က	9	 !	<u></u>	က	:	ಣ		2	4	•	<u></u>	48
Cirrhosis of Liver.	:			9	:	6.7	- i	:	•	:		•	-	•	<u>81</u>	•	· ·		9 9
Appendicitis and Typhlitis.		:	, , , , , , , , , , , , , , , , , , , 	:	•		:	4	:	<u>~</u>			_ :		G 1				
Diarrhæa, etc., (under 2 veara).		p-m/	F==1	:	:	4	୍ଦା		<u>:</u>	•	t	:	:		•			:	14
Ulcer of stomach or duodenum.	•		4	•		ଠା	p	4	•	:		•	•		:		:	:	18
Other Respiratory Diseases.		CV.	•	•	•	ಣ		4	:	•	ಞ	•			•	9	ડા	ಣ	23
Pneumonia (all	्य	20	19	•	413	24	16	22	G1	41	11	•	တ	1,-	2/	1-	9	20	173
Bronchitis.	-	14	23	•	es	24	10	20	40	GT2	0	(13	9	F.	10	1-	4	16	167
Arterio Sclerosis.	•	CTD	24	:	613	17	9	21	 1	ಣ	w	C1	7	4	70	%	9	0.1	117
Heart Disease.	ರಾ	09	40	:	8	21	26	53	0	33	25	က	21	30	5	20	16	17	370
Cerebral Hæmorrbage.	•	20	13	•	-21	20		22	£	10	12		[-	0.	624	12	w.	11	165
Diabetes.	:	7	- 4	•	•	<u>01</u>	4	70		 	pind		П	П			•		27
Rheumatic Fever.			~	•	: :	27	:	<u>c1</u>	•	-		•		1	•	•	•	•	10
Cancer, Malignant Disease.		28	33	•		19	20	30	ಣ	12	23	-	11	19		9	00	21	250
Other Tuberculous Diseases.	2	4	111	•			<u>ش</u>	70	:		~~	•		4	•	40	27	6.4	47
Tuberculosis of Tuberculosis or Artem	2		15		70	14		<u> </u>		(1) 		•	<u>~~</u>	అ	4,	70	<u>ा</u>		94
Meningococcal Meningitis.			:	:	•	•		•	•	:		•		•	•	•	•	•	3
Encephalitis Lethargica.			₽ 4				•	•	•	•	1	•	•	•	•		:	•	10
.sznenhal	्रा	14	27	:	0	16		23	ಣ	ಣ	10	ಣ	70	10	2	20	9	10	154
Diphtheria.	•	5	:	:	:	4	:	:	:	H	П	•	:		•	•	•	0.1	14
Scarlet Fever. Whooping Cough.		175		•		<u> </u>	3	70		:		· ·	<u> </u>		:			115	947
Measies.	:	থ	•	•	•		•	-	•	•	:	•	•	-	•	•	•	-	19
Smallpox	-		· ·	*	•	•	:	+		:	:	:	:		:	:	•	•	1
Enteric Fever.	-:	•	•	•	-:	• 1:	•	- -	•	•	•	•	•	•			:	•	•
Deaths under I year.	-		31	•	41	34	24	00 00 00		- 	20	-	12	14	4	00	7	31	
causes.	26		307	:	63	257	179	341	46	73	59	15.	97	163	63	<u> </u>	36	84	34 265
Ila mori adiaeC		C1		•												3 11			2464
Births	44	518	503	•	86	421	263	572	, 70	111	282	00	145	195	104	143	118	263	3856
	£h	•	•	•	•	วาล	•	:	•	:	:		por.)	•	•	por.);	:	•	
District	Heath	ادا	•	•		infc				ele				•	th	. Pc	er	•	70
IST		loci	dle	ey	5	SW	•	iele	ield	ast	on	12	ord	0)	IOM	ury	xet	all	tals
А	Blore	Cannock	Cheadle	Dudley	Gnesall	Kingswinford	Leek	Lichfield	Mayfield	Newcastle	Seisdon	Shifnal	(Stafferd Stafford	Stone	amı	'Stalls. pc Tutbury	Uttoxeter	Als	Totals
	m	Ö	O	D	5	K	L	H	N	Z	Š	$\overline{\mathbf{x}}$	S	S	H	T	D	=	

Table showing the number of cases of certain Infectious Diseases notified in each sanitary area during the year 1927, and the Attack-Rates per 1,000 of the population.

•
Z
A
M
5

Puer- peral	Cases.	•	<u> </u>	•	-	4		λĠ	4	20	•	9	က	₩	 4	•	CJ
Encepha- litis Lethar-	gica. Cases.	•	:	•	:	:	:	:	ಣ	H	•	 1	H		•	•	•
Polio- myelitis	Cases.	•	H	•	¥	•	•	1	•		•	:		*	:	:	→
Cerebro-	Fever Cases.		0	•	•	*	•	•		•	•	•		•			:
Con-	Fever Cases.	•	:	•	•	•	•	•	•	•	•	•	0	•	:	:	:
Erysipelas.	Rate	•	08.0	0.59	0.35	0.52	0.38	0.46	0.11	0.52	0.27	0.47	0.53	0.12	0.00	•	0.46
Erysi	Cases	•	12	5	11	7	∞	17	က	10	-	5	0		61	:	4
oeral	Rate	•	0.13	:	0.03	0 07	0.14	0.05	•		:	•	•	:	0.04	:	:
Puerperal Fever.	Cases	:	23	:	Н	-	ဏ	0.1	•	•	:	:	:	:		:	:
eric er.	Rate	:	•	•	•	0.07	0.05	0.02	•	0.05	:	0.18	•	0.12	•	•	0.11
Enteric Fever.	Cases	•	•	•	•	-	-	П	•	1	•	ତା	:	-	:	•	
leria.	Rate	1.99	1.33	4.94	18.0	2.99	0.72	0.62	1.70	1.00	0.27	3.66	1.96	0.35	99.0	92.0	2.52
Diphtheria.	Cases	9	20	42	26	40	15	23	18	19	П	39	33	က	14	က	22
let er.	Rate	99.0	2.86	1.53	1.33	06.0	2.61	1.95	0.81	1.10	3.32	3.00	5.36	4.63	1.51	92.0	1.72
Scarlet Fever.	Cases	c1	43	13	41	12	54	75	21	21	67	32	90	30	35	ಣ	15
-pox.	Rate		:	•	0.03	•	•	•	•	•	•	:	0.12	:	:	•	
Small-pox.	Cases		•	:	г	•	•	•	:	•	•	:	64	:	:	•	•
Estimated Population	in the middle of 1927.	3,011	14,990	8,502	30,820	13,350	20,690	36,810	25,720	19,020	•	10,660	16,780	8,406	21,210	3,915	8,723
	DISTRICT.	Amblecote	Audley	Biddulph	Bilston	Brierley Hill.	Brownhills	Cannock	Coseley	Darlaston	*Heath Town	Kidsgrove	Leek	Lichfield	Newcastle	Perry Barr	Quarry Bank

* First quarter of year.

7
0
5
i
北京
S
0
ĭ
hom
Z
M
44
M
M

Puer- peral	Cases.	11		c 3	63	∞		-	•	ಸರ	:	9	:	П	ro
Encepha- litis		•	Н	:	:	:	:	:	:	20	:	provi	•	•	
Polio-	Cases.	:	Н	:	:	-	:	:		:	:	:	:	:	:
Cerebro-	Fever Cases.	:		:	:	•	:	:	:	:	•	•	:	•	:
Con-	Fever Cases.		•	:	•	•	:	:	•	•	:	:	•	•	:
elas.	Rate	0.28	0.36	0.90	0.20	0.45	0.17	0.37	0.36	0.40	•	0.56	•	0.50	0.27
Erysipelas.	Cases	21	21	18	П	13	Н	က	81	15	:	10	•	111	00
er.	Rate	0.04	•	0.05	:	0.03	•	:	•	•	:	:	:	0.04	:
Puerperal Fever.	Cases	c1	:	П	•	7	:	:	•		•	:	•	y	•
eric er.	Rate		:	:	0.20	•	•	•	•	•	•	0.03	•	:	:
Enteric Fever.	Cases		•	•	П	•	:	:	:	:	:	-	•		:
heria.	Rate	0.77	•	9.85	2.05	0.76	0.51	1.87	0.54	0.72	•	0.29	0.23	0.64	0.47
Diphtheria.	Cases	33	:	17	10	22	က	15	က	27	:	10	67	14	14
rlet er.	Rate	2.18	0.54	1.05	1.01	98.0	0.17	1.74	1.26	0.61	0.17	1.84	0.81	1.37	2.28
Scarlet Fever.	Cases	93	က	21	70	25	\vdash	14	<u> </u>	23	ı	62	7	30	89
-pox.	Rate	:	•	:	:	•	•	*			:	:	•		:
Small-pox.	Cases		:	:	:	•	:	:	:	•		•	•	•	•
Estimated Population	middle of 1927	42,690	5,561	19,940	4,935	28,830	5,894	8,018	5,527	37,300	5,629	33,560	8,639	21,850	29,740
	DISTRICT.	Rowley Regis	Rugeley	Sedgley	Short Heath.	Stafford	Stone	Tamworth	Tettenhall	Tipton	Uttoxeter	Wednesbury.	Wednesfield	Willenhall	Wolstanton

RURAL.

							ĺ							 				+
	Estimatea Population in the	Small-pox.	-pox.	Scarlet Fever.	rlet er.	Diphtheria	leria.	Enteric Fever.	ric er.	Puerperal Fever.	eral	Erysipelas		Con- tinued	Cerebro- spinal Forer	Polio- myelitis	Encephalitis Lethar	Puer- peral Pvrexia
DISTRICT.	1927.	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Cases.	Cases.	Cases.	cases.
Blore Heath.	2,696		•	14	5.19	1-	2.59	•	•	:	÷	Н	0.37		•	•	•	
Cannock	21,330	•	:	93	4.36	81	3.79	4	0.18	41	0.18	7	0.33	•	П	:	H	%
Cheadle	26,560	•	•	35	1.20	14	0.52		•	က	0.11	∞	0.30	:	Н	:	¢1	6
Dudley	25	•	:	:	•	•	:	•	•	•	•	•	•	•	:	:	•	:
Gnosall	4,679	•	•	11	2.35	_	0.21		:	•	•	-	0.21	•	:	:	H	
Kingswinford	22.400	•	•	37	1.65	32	1.43	•	:	Н	0.04	∞	0.35	:	•	•	က	61
Leek	14,800	:	•	28	1.89	2	0.47	•	•		:	က	0.20	:	:		63	41
Lichfield	32,550	•	:	46	1.41	91	0.49	က	0.09	4	0.12	9	0.18	:	:	က	:	70
Mayfield	3,805	•	•	¢2	0.52	Н	0.26	•	:	•	•	П	0.26	•	:	:	:	٠ د
New castle	6,113	•	:	ro	0.81	12	1.96		:	П	0.16	П	0.16	•	•	H	:	:
Seisdon	16,200	•	•	23	1.42	14	98.0	Н	90.0		90.0	H	90.0	:	•	•	П	9
Shifnal	671	•	•	•	:	•	:		•	•	•	:	:	:	•	:	:	:
Stafford	0,403	•	•	Ś	0.85		:	¢.1	0.21	:	:	61	0.21	•	:	:	:	ಣ
Stone	12,300	Н	80.0	21	1.70	20	0.40	•	:	*	:	4	0.32	:	•	٠	:	ر ويا
Tamworth	5,901	:	•	20	0.84	11	1.86		:	•	•	:	•	•	•	•	•	:
(Stails, por.) Tutbury	8,964	•	•	70	0.55	Н	0.11	•		*	•	•	•	:	•	H	П	:
Uttoxeter	7,933	•	•	23	2.90	•		•	;		:	SJ.	0.25	:	•	H	•	:
Walsall	14,250	•	•	15	1.05	23	1.61	•	•	* 0	:	6	0.63	•	:	Н	:	:

L. Legitimate. 1.-Hilegitimate. *Districts or parts of districts worked by emergency nurses (a) Onc H.V. also serves part of Leek R.D.

(b) Also serves part of Walsall R.D.

(c) Also serves part of Willenhall U D. Absorbed by Wolverhampton County Borough, 1st April, 1927.

Particulars relating to the work during the year ending 31st December, 1927.

	ad 1927.			-		Not	tified.	Birth	S.		-,	T'rans		m other			First	Visits.		Revi	isits.	1	Total Vis	sits.	List	n on Visit at end of 1927.			Death		als and '		s of Childr 1927.	ren on			Monthly 2	No. on	lfare Centr		ttendances	-1		Îi Vis	No. of Tealth isitors.		1
District.	ation ated r of	Registe	red.	Live Birt	hs.	Still	born.			By Pare	ents		Over	10 days	One	ear		Children		-	Child							- Unde		Over te	en days a	and	One year	and		e Amar	Child		1011	1	lren.		No. of cases of insanitary			Remarks	District.
	Spirit Sp		Full	erm. Pro	matura	Full term	Promoto	l Mid	By wives.	and Doctor	rs. te	Under en days.	and	under year.	and m	der E	spec		Ex	pec-		Ex	xpee	hildren. Betweer	Under	One Y	Tear		<u>-</u>			-	under fi		Trans- ferred	Expectant	Linden	Ratwoon	Expectant	Under	Between H	scalth to	onditions reporte o Medical Officer of Health.	r.	Dont		
	112	L.	I. L.							Τ.		1		,		Mo	thers. Un	der 1 year yea	& 5 Mot	hers. Un	der 1 &	5 Mo	others Under 1 year	er 1 & 5 r years.	One Yea	and un	nder De								to School	Mothers.	one year	1 and 5 years.	Mothers.	one year	l and 5 years.	Visitor	0. 2 0	time.	time.		
URBAN.										-										_			_	-		_							1. I				35	41	2	371	322	73				Andley Centre	URBAN, AUDLEY
AUDLEY	1499	222	12 225	10	-3	7 1	2 -	- 20	4 7	33	4 -		- 1	7 -	25		93	217	29	92 20	064 30	024	185 2281	3953	25	1 8	944 :	2 —	- -	б	1 22	2	0 -	75 —	227 (32	4.1	_	1	611		30			Talke Centre	BIDDULPH
BIDDULPH	850	118	1 152	б	1 _	7 —		— 159	9 6	4		- -	- 1	0 -	24		52	161	2	62 13	350 3'	748	114 1517	3750	14	4 £	563	1 _		7 -	- 31	-	6 - '	49 —	125	7	50	97	43	576	189	94	_	2 ((a) —	Brownhills Centre	<i>D.D.</i> 0 <i>M.</i> 1.
BROWNHILLS	2069	399	15 354	7	5 -	15 —	1 -	- 40:	2 7	6		-	- 1	4 —	21	-	89	103	10 ;	158 1	937 4	745	247 2340	4784	38	8 17	771 1	11 -		17	1 31 ,	- 1	0 - :	38 —	310 {	1 —	80 39 70	66 44 78	37 19 —	574 818	659 1210	48 }	63	3	-	Norton Canes Centre Walsall Wood Centre	BROWNHILLS
#HEATH TOWN		69	3 68	1	2 —	3 —	. _ .	_ 7	1 1	2		_ -			_	_	20	54		19	280	623	69 334	623				1 —	1 ~	8 -	- 8	_	1 -	12 —	75 {	1 3	71 34	89 71	$\begin{array}{c} 4 \\ 20 \end{array}$	383 163	267 231	13 } 13 }	13	2 ‡	-	Heath Town Centre Mosely Village Centre	‡HEATH TOWN
Kidsgrove	1066	192	5 195	1	2	10 —	. 1 .	_ 20	6 4	5	_		_ <u> </u>	2 2	33	1	42	002	9.4	50 1	A60 9	061	02 9109	9085	10	0	600	5		18 -	_ 32	_ 1		79 -	1.15	1	31 39	34 55	-8	263 256	274 259		7	2	-	Harriseahead Centre Kidsgrove Centre	KIDSGROVE
Lichfield																																					39	29	88	856	515	93	6	1 2	1 -	(Centre closed \$0, 5, 27—19, 9, 27)	LICHFIELD
PERRY BARR																																								393	126	49	4	1 (8	(b) —		PERRY BARR
QUARRY BANK																																								1168	315	50	19	1	_		QUARRY BANK
RUGELEY																																				_	17	44	_	193	419	26	1	1			RUGELEY
SEDGLEY	1991	398	7 383	11	5 -	5 1	3 .	- 35	6 12	40		_ _	_ 9		41		101	400	94	ne la	-0-	007	289 2974	-961) 05		150	6 -	,	90 -	વવ	7 1	3 _ ,	77 _	330 {	5	62 38	55 53	51 —	940 623	863 519		39	3	-	Bleak House Centre Lower Gornal Centre	SEDGLEY
SHORT HEATH					_																		112 1611													_	23	26	_	440	315	ľ	9	1 (0	(c) —		SHORT HEATH
TAMWORTH																							81 973													2	55	72	12	957	1106	49	3	1			TAMWORTH
Uttoxeter			6 88																1				11 1302			1										3	30	81	26	443	966	91	7	l _	2		UTTOXETER
WEDNESFIELD	863	178	8 149	3	2 —	2 —	- -	11-	s + 3	35		_ _		2	2	_	8î						207 1049		1											2	42	62	32	876	997	48	7	1	-		WEDNESFIELD
WILLENHALL .	2185	131	10 356	5	13	6 -	2	- 14	0 3	237	2 -		– 8	2 —	176	_	97	395	53	173 3	031 5	797	270 3426	5850	40	7 13	383 1	14 -	2	30 -	_ 67	_ 3	4 1 1;	39	290	2	118	106	34	2094	1071	244	121	3			WILLENHALL
RURAL. Blore Heath	269	37	7 28	2	2	1 -	1_	- 3	0 2	1			4	1 _	$\begin{bmatrix} & & \\ & 2 & \end{bmatrix}$	-	30	38	9	23	347	504	53 385	5 513	2	4 1	106		1 -	_ _	-		- -	2	25		_	~		-	*****	_ }	-	1-	3		RURAL. BLORE HEATH
CHEADLE	2656	181	22 444	7	14 -	.7 —	5	3 39	0 , 9	90	1 -	→] -	- 1	6 -	36	-	178	448	45	364 3	355 6	351	542 3803	6396	48	6 13	553 10	10 -	1 —	5 -	_ 24	- 1	1 1 3	34 -	278	7	32	46	11	473	923	51	6	1	8 *		CMEADLE
GNOSALL	467	81	5 59	3	1 —		4 -	5	4 3	10			-	2 _	7	1	44	52	8	161	581	860	205 633	868	6	3 2	236 1	1	-1-	-1-	- 6	1		10 -	28	—		-		_	- 1	-	_		2		GNOSALL
Kingswinford	2240) 405	16 267	9	7 1	4	2	= 29	3 5	87	5	1 -	- 1	3 —	- 23	3	149	392	101	168 2	990 5	763	317 3382	5864	-16	9 12	286 10	10 —	2 -	14	2 31	_ 1	0 - 1	57 3	97	2 1	63 40 32 87	77 39 57	$\begin{array}{c} 39 \\ 7 \\ \hline 12 \end{array}$	592 574 454 1063	549 262 504 1342	50 50 73 49	64	1 3	-	Brockmoor Centre Pensnett Centre Kingswinford Centre Wordsley Centre	KINGSWINFORD
Leek	1480	245	18 + 219	7	1 -	13 1	3 .	_	4 2	82	6		_ 1	1	99		02	2.12	99	32 1	106 3	828	126 1649	3658	97	<u>.</u> 0	051		1 -	19 —	_		4 — 3	- 04	140					_	-	_	15	2			LEEK
MAYFIELD .			- 41								1				1		.19						96 667	3											110		1								4 *		MAYFIELD
New(ASTLE														1			33						99 1041			- 1																	7	-	1 *		NEWCASTLE
Seisdon																							106 2124			·									5		16 17 25 17		<u>1</u> —	257 319 558	228 671	48 48 49	26	3	-	Codeall Centre Kinver Centre Upper Penn Centre Womhourne Centre	SIESDON
STAFFORD	940	3 139	6 122	3	6	5	1 -	_ 11	7 1	17	2 -	_ _	- 1	3 -	27	_	106	105	39	286 1	022 2	072	392 1127	2111	9	8 4	401	4 —		1 -	- 10	_ :	2 — 3	39 —	55	_	_ _		_	0-1	-		3		7 *		STAFFORD
										i													343 1474				1														_		1	-	5 *		STONE
																							128 779																		-		_		5 *		TAMWORTH
TUTBURY	896	4 137	6 112	2				- 90	0 2	22		- -	- "	5 —	24	2	72	103	26	179 1	324 2	836	251 1427	2862	9:	$2 \mid 4$	450	1 —	3 —	3 -	- 18		2	20 —	86		_	-	_		-	- :	3	1	1 *		TUTBURY
UTTOXETER	793	3 110	5 54	2	3	5 -		7:	2 1	20	1 -	- -	- 1	8 -	26	2	99	111	210	181	848 1	665	280 959	1875	8	6 3	307 —		-1-	1 1	1 11	- :	1 1 1	24 -	94		- 0	- 1	-	-	-	-	-		4 *		UTTOXETER
Walsall	1425	0 253	10 213	2	5 —	6 1	-1	190	6 2	28	1 -	- -	- , 1	4 1	56	-	74	271	62	42 1	068 23	352	116 1342	2114	19.	5 8	856 8	s —	-!-	18 —	- 12	- 3	1 — 3	31	199 {	2	25 46	47 76	27 3		529 812			1		Aldridge Centre Pelsall Centre	WALSALL
PARISHES. BLYNHILL AND WESTO:	N 67	1 8	- 15					_ 1·	4 —	1		- -	_ '	3 _	5		29	11	2	18	135	228	47 146	230		9	36 –	_1_		_ -	_ 5				_ `		_	-	_		-				1		PARISHES. BLYMHILL AND WESTON
DUDLEY CASTLE HILL																																										-	1	_	_ *		DUDLEY CASTLE HILL
	30715	8 5467	233 4914	120	86 1	141 6	35	3 419	S 103	978	27	2 -	- 33	1 10	763	12	1994 5	270	856	3089 38	809 77	172	5083 44079	78028	495	0 181	180 96	96 —	26	213 10	0 524	14 17	9 5 113	32 4	3697	51	1383	1771	511	19642	18953	1877	503	37	43	i	

